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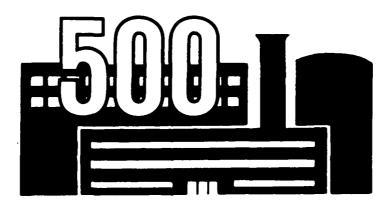
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500 CONTRACTORS

RECEIVING THE LARGEST DOLLAR VOLUME OF PRIME CONTRACT AWARDS FOR RDT&E

Fiscal Year 1989

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DISTRIBUTION STATEMENT A

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500 CONTRACTORS RECEIVING THE LARGEST DOLLAR VOLUME OF PRIME CONTRACT AWARDS FOR RESEARCH, DEVELOPMENT, TEST, AND EVALUATION

Fiscal Year 1989

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Department of Defense
Washington Headquarters Services
Directorate for Information
Operations and Reports

FOREWORD

500 Contractors Receiving the Largest Dollar Volume of Prime Contract Awards for Research, Development, Test and Evaluation (RDT&E) is published annually. This report provides information on the 500 contractors that received the largest dollar volume in Department of Defense (DoD) prime contract awards over \$25,000 for RDT&E. These data are presented in five tables showing:

- 1. An alphabetical listing of the top 500 companies, with rank;
- 2. The ranking and net value of awards to business firms operating in the United States;
- 3. The ranking and net value of awards to educational and other nonprofit institutions operating in the United States;
 - 4. The ranking and net value of awards to foreign contractors; and
 - 5. The ranking and net value of awards to U.S. government agencies.

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INTRODUCTION

This report presents summary data on the 500 prime contractors receiving the largest dollar volume in Department of Defense (DoD) awards over \$25,000 for research, development, test, and evaluation (RDT&E) work during Fiscal Year (FY) 1989. RDT&E work can include research, exploratory development, advanced development, engineering development, operational systems development, or management and support services. (Full definitions for each of these categories are provided in DFARS 235.001.)

Table 1 (page 7) lists the 500 contractors in alphabetical order, shows the ranking for each, and shows how each has been categorized for reporting purposes. The categories are business firm (B), foreign contractor (F), and nonprofit institution (N). Table 2 (page 13) shows the net value of awards to U.S. business firms by rank. Those firms which qualify as small businesses are further identified by an "S". The net value of awards to each of the firm's reported locations is also provided. Tables 3, 4, and 5 (pages 29, 33, and 35, respectively) provide the net value of awards to U.S. educational and other nonprofit institutions, foreign contractors, and U.S. government agencies. (While awards to U.S. government agencies are listed separately in Table 5, these agencies are categorized as nonprofit institutions in Table 1.) As in Table 2, contractors in Tables 3 through 5 are shown by rank, with their total awards indicated by an asterisk (*). The net value of awards to each of the contractor's reported locations are also shown for these tables.

NOTES ON COVERAGE

The dollar amounts shown here include prime contract awards over \$25,000 for RDT&E work only. Data on awards for other services, such as training, and on any supplies furnished by the contractors in support of research being done are excluded. Contract awards for civil functions have been included in these data. Civil functions encompass planning, programming, designing, constructing, and operating Federal water resource projects for navigation, flood control, hydroelectric power production, water supply, and other related activities.

The locations shown in the tables are the places where the work was to be performed. Normally, this is a facility of the concern awarded the contract. However, if the work was scheduled to be performed at a Defense facility, such as an Air Force base, the location shown may be that of the Defense facility rather than the contractor.

DATA RELATING TO COMPANIES IN THIS PUBLICATION ARE SUBJECT TO THE ACCURACY OF THE DUN & BRADSTREET CORPORATION'S DATA UNIVERSAL NUMBERING SYSTEM AND ITS ABILITY TO DESCRIBE RELATIONSHIPS OF COMPANIES.

HIGHLIGHTS

The following table shows the net value and percent distribution of all RDT&E awards, RDT&E awards to the top 500 companies, and all other RDT&E awards for FY 1989.

Department of Defense Prime Contract Awards Over \$25,000 Fiscal Year 1989

	TOTAL RDT&E			TOP 500 RDT&E			ALL OTHER RDT&E		
TYPE OF CONTRACTOR	NUMBER		6 OF OTAL \$	NUMBE	AWARDS	% OF TOTAL \$	NUMBER	AWARDS (\$000)	% OF TOTAL \$
RDT&E - TOTAL	2,573	23,206,080	100	500	22,494,091	100	2,073	711,989	100
BUSINESS FIRMS	2,165	20,363,837	88	392	19,763,298	88	1,773	600,539	84
Small Large	1,646 519	1,363,167 19,000,670		175 217	890,577 18,872,721	4 84	1,471 302	472,590 127,949	66 18
EDUCATIONAL & NONPROFIT	298	2,654,446	11	92	2,567,336	11	206	87,110	12
Educational Other Nonprofit	203 95	1,458,581 1,195,865	6 5	68 24	1,397,119 1,170,217	6 5	135 71	61,462 25,648	9
U.S. GOVERNMENT AGENCIES	8	7,420	*	2	5,633	*	6	1,787	*
FOREIGN	102	180,377	1	14	157,824	1	88	22,553	3

*LESS THAN 0.5 PERCENT

NOTE: TOTALS MAY NOT ADD DUE TO ROUNDING

Based on the percentage of total awards, the distribution of FY 1989 awards varies moderately from that in FY 1988. In FY 1989, the top 500 contractors included 392 U.S. business firms (175 of which were small businesses); 92 educational and nonprofit institutions; 2 U.S. government agencies; and 14 foreign contractors.

In FY 1988 the top 500 consisted of 377 business firms (174 were small businesses); 103 educational and nonprofit institutions; 3 U.S. government agencies; and 17 foreign contractors.

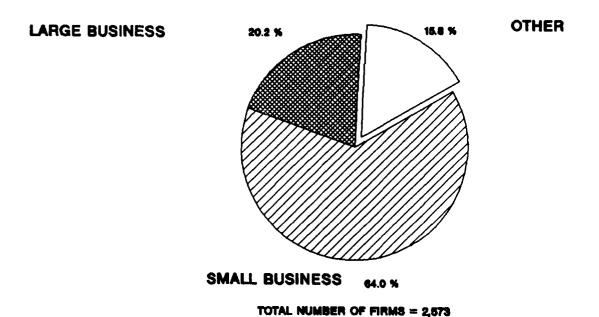
The top 500 RDT&E contractors received awards totaling \$22,494 million in FY 1989, compared to \$21,877 million in FY 1988, an increase of \$597 million or 2.7 percent. The \$22,494 million represents 96.9 percent of the \$23,206 million total prime contract awards over \$25,000 for RDT&E work in FY 1989.

In addition to the top 500 contractors, there were 2,073 other contractors for whom RDT&E procurement actions over \$25,000 were reported, for a total of 2,573 contractors in FY 1989. In FY 1988, the total number of contractors was 2,597.

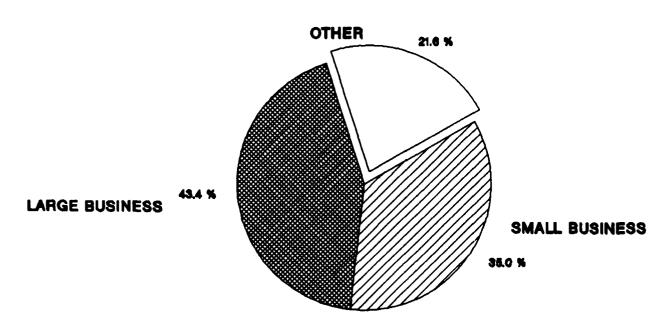
Of the 36 contractors with RDT&E awards of \$100 million or more in FY 1989, 32 were business firms and 4 were educational and other nonprofit institutions. These 36 contractors had a total of \$17,109 million in RDT&E awards. In FY 1988, there were 37 contractors who reached the \$100 million plateau, with awards totaling \$16,512 million. Of these 37 fiscal year 1988 contractors, 32 were business firms and 5 were educational and other nonprofit institutions. The amount of awards for this \$100 million group increased by \$597 million or 3.6 percent between FY 1988 and 1989.

Breakout of the type of contractors receiving RDT&E awards are shown in the charts on the next page. Both of these charts show the number of firms with their associated percentages, and not the percentage of dollars.

TOTAL CONTRACTORS RECEIVING RDT&E DOLLARS Fiscal Year 1989



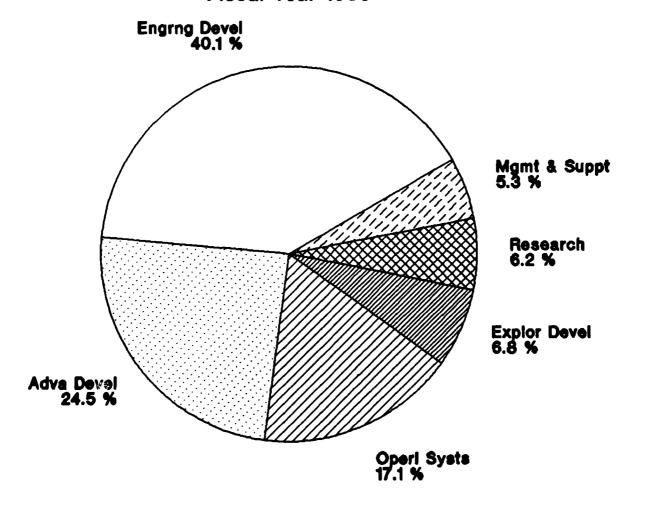
TOP 500 CONTRACTORS - RDT&E Fiscal Year 1989



The following table shows the type of RDT&E work the contractors were engaged in and the net value and percent distribution of all awards for each of these types in FY 1989. Engineering development accounted for the majority (40.1 percent) of RDT&E awards, followed by advanced development (24.5 percent).

TYPE	AWARDS (\$000)	PERCENT OF TOTAL	
RDT&E - TOTAL	\$23,206,080 ====	100.0	
Engineering Development	9,328,262	40.1	
Advanced Development Operational Systems	5,674,073 3,963,884	24.5 17.1	
Exploratory Development Research	1,581,332 1,428,702	6.8 6.2	
Management and Support	1,229,827	5.3	

DOLLAR AWARDS BY TYPE OF RDT&E WORK Fiscal Year 1989



The last table shows the net value and percent distribution of all RDT&E awards by type of program. Within the RDT&E contracts, the largest volume of awards was for the research, development, test, or evaluation of missile & space systems and aircraft. In FY 1989, a combined total of \$11,652 million or 50.2 percent of all RDT&E awards over \$25,000 was for work connected with these programs.

PROGRAM	AWARDS (\$000)	PERCENT OF TOTAL	
RDT&E - TOTAL	\$23,206,080	100.0	
Missile & Space Systems	6,962,375	30.0	
Aircraft Electronics & Communication	4,689,330	20.2	
Equipment	3,743,548	16.1	
Services	3,925,413	16.9	
Ships	767,206	3.3	
Ammunition	723,006	3.1	
Weapons	430,252	1.9	
Tank -Automotive	1,018,920	4.4	
All Other	946,030	4.1	

RDT&E DOLLARS AWARDS BY TYPE OF PROGRAM Fiscal Year 1989

MSL & SPACE 30.0 %

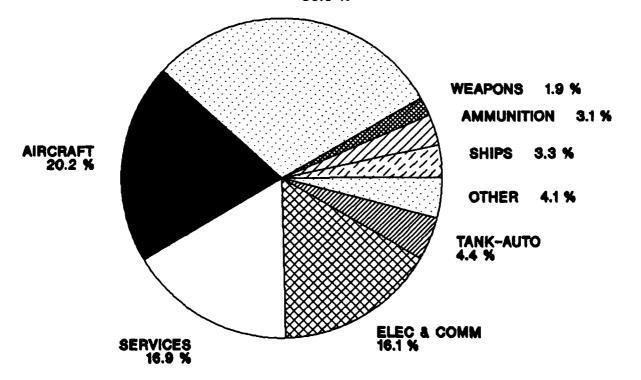


Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1989

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
120	В	A A I CORPORATION	457	В	B K DYNAMICS INC
497	В	A P A OPTICS INC	232	В	BABCOCK & WILCOX COMPANY THE
26	В	A T & T TECHNOLOGIES INC	67	В	BALL CORPORATION
106	В	ACUREX CORPORATION	88	Ň	BATTELLE MEMORIAL INSTITUTE
165	B	ADVANCED DECISION SYSTEMS	41	В	BDM INTERNATIONAL INC
395	В	ADVANCED RES & APPLICATIONS	169	В	BDM MANAGEMENT SERVICES CO
321	В	ADVANCED TECHNOLOGY & RESEARCH	269	В	BECHTEL NATIONAL INC
220	В	ADVANCED TECHNOLOGY INC	23	В	BELL BOEING JV
440 422	B B	ADVANCED TECHNOLOGY SYSTEMS AERODYNE RESEARCH INC	177 284	B B	BELL HELICOPTER TEXTRON INC BERKELEY RESEARCH ASSOCIATES
	_			_	
38	В	AEROJET	48	В	BOEING CO & SIKORSKY ACFT JV
119	В	AEROJET ELECTRO SYSTEMS	4	В	BOEING COMPANY THE
366	В	AEROLIFT INC	89	В	BOLT BERANEK & NEWMAN INC
234	В	AEROMET INC	108	В	BOOZ ALLEN & HAMILTON INC
21	N	AEROSPACE CORPORATION	281	N	BOSTON UNIVERSITY
475	В	AHNTECH INC	254	N	BROWN UNIVERSITY
34	В	ALLIED SIGNAL AEROSPACE CO	236	В	BRUNSWICK CORPORATION
100	В	ALLIED SIGNAL INC	493	F	BUNDESAMT FUER WEHRTECHNIK
483	В	ALPHATECH INC	184	В	C A E INDUSTRIES LTD
186	В	AM GENERAL CORPORATION	115	В	C E OPERATIONS & MAINT SVC INC
421	N	AMERICAN SOC FOR ENGRG EDCTON	443	В	C V D INCORPORATED
170	В	AMERICAN SYSTEMS CORPORATION	354	В	C3CM TST ENGR
249	В	analysis & computer systems	396	В	CACI INC
134	В	ANALYSIS & TECHNOLOGY INC	189	N	CALIFORNIA INST OF TECHNOLOGY
59	В	ANALYTIC SCIENCES CORP THE	290	В	CALIFORNIA RES & TECHNOLOGY
76	N	ANALYTIC SERVICES INC	44	В	CALSPAN CORPORATION
149	В	ANALYTICAL SYSTEMS ENGRG CORP	193	F	CANADIAN COMMERCIAL CORP
325	В	ANALYTICS INCORPORATED	58	N	CARNEGIE MELLON UNIVERSITY
239	В	ANALYTYX ELECTRONIC SYSTEMS	399	В	CARTURIGHT ELECTRONICS INC
308	В	ANDRULIS RESEARCH CORP	311	В	CAS INC
318	В	APPLIED MEASUREMENT SYSTEMS	403	N	CASE WESTERN RESERVE UNIV
328	В	APPLIED RESEARCH ASSOC INC	124	В	CBI NA CON INC
233	В	APPLIED RESEARCH INC	447	В	CELCO TOOL & ENGINEERING
319	В	APPLIED TECHNOLOGY ASSOCIATES	404	F	CENTRE NATIONAL DETUDES SPATI
333	В	APTEK INC	438	B	CENTURY COMPUTING INC
307	В	ARETE ASSOCIATES	137	В	CHAMBERLAIN MANUFACTURING CORP
161	В	ARINC RESEARCH CORPORATION	196	В	CHRYSLER TECHNOLOGIES
335	В	ARMAMENT SYSTEMS INC	212	В	CINCINNATI ELECTRONICS CORP
131	В	ARMORED VHCLE TCHNLOGIES ASSO	348	N	CLEMSON UNIVERSITY
190	В	ASP CONSORTIUM	171	В	COLEMAN RESEARCH CORPORATION
172	В	ASSURANCE TECHNOLOGY CORP	33	В	COLLINS INTERNATIONAL SVC CO
293	В	ATLANTIC AEROSPACE ELECTRONICS	332	N	COLORADO STATE UNIVERSITY
86	В	ATLANTIC RESEARCH CORPORATION	81	В	COLSA INC
339	F	ATM COMPUTER GMBH	206	N	COLUMBIA UNIVERSITY
374	N	AUBURN UNIVERSITY	181	В	COMARCO INC
253	В	AUTOMATED SCIENCES GROUP INC	450	В	COMPRHENSIVE TECHNOLOGIES INTL
356	В	AUTOMATION RES SYSTEMS LTD	329	В	COMPUTER RESOURCE ENGRG ASSOC
62	В	AVCO CORPORATION	37	В	COMPUTER SCIENCES CORPORATION
84	В	AVCO RESEARCH LABORATORY INC	109	В	CONTEL FEDERAL SYSTEMS INC
439	В	B D SYSTEMS INC	427	В	CONTRAVES GOERZ CORPORATION

^{*} B = Business Firm F = Foreign Contractor N = Nonprofit Institution

Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1989

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
121	В	CONTROL DATA CORPORATION	387	В	EVALUATION RESEARCH CORP
150	N	CORNELL UNIVERSITY	414	В	FABEL SYS CORP
353	В	CROSS SYSTEMS INC	355	В	FEMME COMP INC
316	В	CTA INCORPORATED	315	В	FIBERTEK INC
488	F	CULHAM LABORATORY	42	В	FMC CORPORATION
146	В	CUMMINS ENGINE COMPANY INC	28	В	FORD AEROSPACE CONNICTIONS CORP
452	В	PATA DESIGN LABORATORIES	200	В	FOSTER MILLER INC
385	В	DAVID SARNOFF RESEARCH CENTER	7	В	FOUNDATION HEALTH CORPORATION
351	В	DBA SYSTEMS INC	428	В	FRIED D L ASSOCIATES INC
264	В	DECISION SCIENCE APPLICATIONS	453	В	FRONTIER ENGINEERING INC
477	В	DECISION SCIENCE CONSORTIUM	93	В	G & F COMPANY
448	В	DEERE JOHN TECHNOLOGIES INTL	72	В	GENCORP INC
211	В	DEFENSE SYSTEMS INC	490	В	GENERAL APPLIED SCIENCE
361	В	DOSS AVIATION INC	130	В	GENERAL ATOMICS
275	8	DOW CHEMICAL COMPANY THE	3	В	GENERAL DYNAMICS CORPORATION
53	N	DRAPER CHARLES STARK LAB INC	166	В	GENERAL DYNAMICS WESTNOHSE JV
197	В	DRAVO CORPORATION	5	В	GENERAL ELECTRIC CO
336	В	DU PONT E I DE NMOURS COMPANY	260	В	GENERAL INSTRUMENT CORP DEL
271	N	DUKE UNIVERSITY	71	В	GENERAL MOTORS CORPORATION
369	В	DYNAMICS RESEARCH CORPORATION	82	В	GENERAL RESEARCH CORPORATION
270	В	DYNCORP	175	В	GEO CENTERS INC
216	В	DYNCORP APPLIED TECHNOLOGY	479	В	GEODYNAMICS CORPORATION
215	В	DYNETICS INC	451	В	GEOMET INC
393	В	E C CORPORATION OF OAK RIDGE	77	N	GEORGIA TECH RESEARCH CORP
471	В	E I C LABORATORY INC	178	N	GEORGIA TECH RESEARCH INST
55	В	E SYSTEMS INC	390	В	GOULD INC
382	В	EAGLE PICHER INDUSTRIES INC	12	В	GRUMMAN AEROSPACE CORPORATION
203	В	EAGLE TECHNOLOGY INC	191	В	GRUMMAN DATA SYSTEMS CORP
156	В	EARTH TECHNOLOGY CORPORATION	40	В	CTE GOVERNMENT SYSTEMS CORP
373	В	EASTMAN KODAK COMPANY	463	В	HADRON INC
61	В	EATON CORPORATION	437	В	HAMPSHIRE INSTRUMENTS INC
274	В	EBASCO SERVICES INCORPORATED	45	В	HARRIS CORPORATION
157	В	ECC INTERNATIONAL CORP	87	В	HARSCO CORPORATION
364 397	B B	ECONOMICS TECHNOLOGY ASSOC	303 158	N	HARVARD UNIVERSITY
391	В	EDO CORPORATION	156	В	HAZELTINE CORPORATION
446	В	EG&G INC	52	В	HERCULES INCORPORATED
141	В	EG&G WASHINGTON ALALYTL SVC	248	В	HILTON SYSTEMS INC
430	В	ELECTRODYNAMICS INC	14	В	HONEYWELL INC
289	В	ELECTROMAGNETIC LAUNCH RES	244	В	HORIZONS TECHNOLOGY INC
391	В	ELECTRONIC ASSOCIATES INC	167	В	HUGHES AIRCRAFT & RAYTHEON JV
312	В	ELECTRONIC DECISIONS INC	15	В	HUGHES AIRCRAFT COMPANY
148	В	ELECTRONIC WARFARE ASSOCIATES	407	В	HUGHES ASSOCIATES INC
69	F	ELEKTRO RADIO KLEIN	255	В	HUGHES TRAINING SYS INC
386	В	EMERSON ELECTRIC CO	460	В	HYPRES INC
341	В	ENCORE COMPUTER CORPORATION	309	В	I A P RESEARCH INC
429	В	ENCORE CORPORATION	43	N	I I T RESEARCH INSTITUTE
378	8	ENGINEERING & PROF SVCS	367	В	I R I CORPORATION
164	N	ENVIRONMENTAL RESEARCH	323	В	I S T INC
420	В	EPOCH ENGINEERING INC	258	В	INNOVATIVE INFORMATION SYS
99	В	ESL INCORPORATED	l 65	N	INSTITUTE FOR DEF ANALYSES

^{*} B = Business Firm
F = Foreign Contract

F = Foreign Contractor N = Nonprofit Institution

Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1989

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
468	В	INTEGRAL SYSTEMS INC	127	В	M A COM LINKABIT INC
256	В	INTEGRATED SYSTEMS ANALYSTS	294	B	MAC AULAY BROWN INC
411	В	INTEL CORPORATION	102	В	MAGNAVOX GOVT & INDSTRL ELCTR
445	В	INTERACTIVE TV COMPANY	371	В	MANAGEMENT CONSULTING & RES
151	В	INTERMETRICS INC	442	В	MANDEX INC
24	В	INTERNATIONAL BUS MCHS CORP	218	В	MANTECH INTERNATIONAL CORP
423	В	INTERNATIONAL SOFTWARE SYSTEMS	273	В	MAR INCORPORATED
381	В	INTERSIL INC	201	F	MARTIN BAKER AIRCRAFT CO LTD
68	В	INTERSTATE ELECTRONICS CORP	1 2	В	MARTIN MARIETTA CORPORATION
320	В	INTRASPACE CORP	79	В	MARTIN MARIETTA DIEHL THORN JV
424	В	IRVINE SENSORS CORPORATION	159	В	MARTIN MARIETTA WESTNINGSE JV
153	F	ISPAEL AIRCRAFT INDUSTRIES	16	N	MASSACHSTTS INST OF TCHNOLOGY
30	В	ITT CORPORATION	70	В	MAXUELL LABORATORIES INC
456	В	J W P INC	49	В	MCDONNELL DGLS BELL HEL TEX JV
435	B	JAMIESON SCIENCE & ENGINEERING	8	В	MCDONNELL DGLS GEN DYNAMICS JV
107	В	JAYCOR	155	В	MCDONNELL DOUGLAS ASTRONAUTICS
19	N	JOHNS HOPKINS UNIVERSITY	2	В	MCDONNELL DOUGLAS CORPORATION
66	В	JOHNSON CONTROLS INC	56	В	MCDONNELL DOUGLAS HELICOPTER
302	В	KAMAN AEROSPACE CORPORATION	283	В	MCDONNELL DOUGLAS INCO INC
116	В	KAMAN CORPORATION	96	В	MCDONNELL DOUGLAS TRNNG SYS
73	В	KAMAN SCIENCES CORPORATION	352	В	MECHANICAL TECHNOLOGY INC
418	В	KDI PRECISION PRODUCTS INC	251	N	MERCER UNIVERSITY
50	В	KEARFOTT GUIDANCE NAVIG CORP	327	F	MESSERSCHMITT BOELKOW BLOHM
467	В	KESTREL INSTITUTE	360	В	METALWORKING TECHNOLOGY INC
322	В	KETRON INC	434	B	METRICA INC
379	В	KEYSTONE COMPUTER ASSOCIATES	357	N	MICHIGAN DEPT PUBLIC HEALTH
416	В	KNOWLEDGE SYSTEMS CONCEPTS	143	В	MILTOPE CORPORATION
398	В	KRUG INTERNATIONAL CORPORATION	90	В	MISSION RESEARCH CORPORATION
392	В	L GARDE INC	17	N	MITRE CORPORATION
494	В	LANXIDE CORP	27	В	MOTOROLA INC
219	В	LASER SYSTEMS & RSCH CORP	365	В	MIS SYSTEMS CORPORATION
376	В	LASER SYSTEMS LABORATORY	486	В	MULTI ELECTRIC MFG INC
444	В	LEADING SYSTEMS INC	346	В	N K F ENGINEERING INC
60	В	LIGHT HELICOPTER TURBIN ENG	305	В	NATION INC
194	В	LITTLE ARTHUR D INC	217	N	NATIONAL ACADEMY SCIENCES USA
317	В	LITTON INDUSTRIES INC	402	В	NATIVE AMERICAN SERVICE ASSN
25	В	LITTON SYSTEMS INC	123	N	NEW MEXICO STATE UNIVERSITY
22	В	LOCKHEED CORPORATION	380	N	NEW MXICO INST OF MIN TCHNLGY
142	В	LOCKHEED ELECTRONICS CO	384	N	NEW YORK UNIVERSITY
419	В	LOCKHEED ENGRG & MGT SVCS CO	230	В	NEWPORT NEWS SHPBLDING DRYDOCK
13	В	LOCKHEED MISSILES & SPACE CO	80	В	NICHOLS RESEARCH CORPORATION
209	В	LOCUS INC	343	В	NORDEN SYSTEMS INC
97	В	LOGICON INC	262	N	NORTH CAROLINA STATE UNIV
394	В	LOGISTICS MANAGEMENT ENGRG	436	N	NORTHEASTERN UNIVERSITY CORP
128	N	LOGISTICS MGT INSTITUTE	35	В	NORTHROP CORPORATION
46	В	LORAL CORPORATION	425	N	NORTHWESTERN UNIVERSITY
210	В	LORAL ELECTRONIC SYSTEMS	363	N	NYSERNET INC
118	В	LORAL FAIRCHILD SYSTEMS INC	500	В	OCEAN DATA SYSTEMS INC
313 29	B	LOS ALAMOS TECHNICAL ASSOC INC	459 350	B B	ODETICS INC
	В	LTV AEROSPACE & DEF CO	1 (50)	15	ODYSSEY RESEARCH ASSOCIATES

^{*} B = Business Firm
F = Foreign Contractor
N = Nonprofit Institution

Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1989

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
368	N	OHIO STATE UNIVERSITY	292	В	ROHM & HAAS COMPANY
370	N	OKLAHOMA STATE UNIVERSITY	101	F	ROLLS ROYCE INC
278	В	OLIN CORPORATION	160	F	ROYAL NORWEGIAN NAVAL MATERIAL
347	В	OPTIMETRICS INC	470	N	RUTGERS THE STATE UNIVERSITY
473	В	OPTRON SYSTEMS INC	208	В	S SYSTEMS CORPORATION
247	В	ORBITAL SCIENCES CORPORATION	145	В	SACHS FREEMAN ASSOCIATES INC
310	N	OREGON STATE UNIVERSITY	240	N	SALK INST FOR BLGICAL STUDIES
252	В	ORINCON CORPORATION	64	В	SANDERS ASSOCIATES INC
338	В	ORION INTL TECHNOLOGIES	496	В	SATCON TECHNOLOGY CORPORATION
409	В	ORLANDO TECHNOLOGY INC	112	В	SCHAFER W J ASSOCIATES INC
168	В	OSHKOSH TRUCK CORPORATION	474	В	SCIENCE & ENGINEERING ASSOC
476	В	P E I ASSOCIATES INC	485	В	SCIENCE & TECHNOLOGY ASSOC
226	В	PACCAR INC	372	B	SCIENCE & TECHNOLOGY CORP
222	В	PACER SYSTEMS INC	31 359	B B	SCIENCE APPLICATIONS INTL CORP SCIENCE RESEARCH LABORATORY
173	В	PACIFIC SIERRA RESEARCH CORP	359	В	SCIENCE RESEARCH LABORATURY
126	В	PAR TECHNOLOGY CORPORATION	410	В	SCIENTIFIC RESEARCH ASSOC INC
261	В	PARSONS RALPH M COMPANY THE	408	В	SCOPE INCORPORATED
54	N	PENNSYLVANIA STATE UNIV THE	458	В	SEMA INC
114	В	PERKIN ELMER CORPORATION	250	В	SEMCOR INC
324	В	PHOTON RESEARCH ASSOCIATES	296	В	SIMULATION TECHNOLOGIES INC
433	В	PHYSICAL DYNAMICS INC	231	В	SIPPICAN INC
401	В	PHYSICAL OPTICS CORPORATION	117	В	SMITHS INDUSTRIES INC USA
243	В	PHYSICAL RESEARCH INC	187	В	SOFTECH INC
288	В	PHYSICAL SCIENCES INC	214	В	SONALYSTS INC
122	В	PHYSICS INTERNATIONAL COMPANY	138	N	SOUTH CAROLINA RES AUTHORITY
144	В	PLANNING RESEARCH CORPORATION	265	N	SOUTHEASTN CTR ELECTR ENG ED
188	В	PLANNING SYSTEMS INCORPORATED	276	N	SOUTHERN METHODIST UNIVERSITY
279	В	PLESSEY DYNAMICS CORP	174	N	SOUTHERN RESEARCH INSTITUTE
417	N	POLYTECHNIC UNIV OF NEW YORK	330	В	SOUTHERN RESEARCH TECHNOLOGIES
492	В	PRESEARCH INCORPORATED	224	N	SOUTHWEST RESEARCH INSTITUTE
285	N	PRINCETON UNIVERSITY	152	В	SPACE APPLICATIONS CORPORATION
257	N	PURDUE UNIVERSITY	92	В	SPACE DATA CORPORATION
213	В	QUEST RESEARCH CORPORATION	91	В	SPARTA INC
304	В	QUESTECH INC	154	В	SPARTON CORPORATION
95	В	R & D ASSOCIATES	246	В	SPIRE CORPORATION
491	В	R J O ENTERPRISES INC	63	N	SRI INTERNATIONAL
176	В	RACAL COMMUNICATIONS INC	163	В	SRS TECHNOLOGIES
105	F	RAM SYS CHIBH	75	N	STANFORD LELAND JUNIOR UNIV
57	N	RAND CORPORATION	237	В	STANFORD TELECOMMUNICATIONS
9	В	RAYTHEON COMPANY	286	N	STATE UNIVERSITY OF NEW YORK
162	В	RAYTHEON SERVICE COMPANY	334	В	STATISTICA INC
498	В	RECON & OPTICAL INC	259	В	STERIMATICS CORPORATION
465	В	REMINGTON ARMS COMPANY INC	227	В	STERLING FEDERAL SYSTEMS INC
287	N	RENSSELAER POLYTECHNIC INST	139	В	STEWART & STEVENSON SERVICES
179	В	RESEARCH & DEV LABORATORIES	499	В	SUMARIA SYSTEMS INC
280	В	RESEARCH ANALYSIS & MAINT	180	В	SUNDSTRAND CORPORATION
198	N	RESEARCH TRIANGLE INSTITUTE	469	В	SUPERCONDUCTOR TECHNOLOGIES
185	N	RIVERSIDE RESEARCH INSTITUTE	47	В	SVERDRUP TECHNOLOGY INC
301	В	RMS TECHNOLOGIES INCORPORATED	464	В	SYGNETRON PROTECTION SYSTEMS
- 6	В	ROCKWELL INTERNATIONAL CORP	J 389	В	SYNDETIX INC

^{*} B = Business Firm
F = Foreign Contractor
N = Nonprofit Institution

Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1989

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
267	В	SYNETICS CORPORATION	228	N	UNIVERSITY OF ARIZONA
199	N	SYRACUSE UNIVERSITY	51	N	UNIVERSITY OF CALIFORNIA
113	В	SYSCON CORPORATION	223	Ň	UNIVERSITY OF CENTRAL FLORIDA
266	В	SYSTEM DEVELOPMENT CORPORATION	462	N	UNIVERSITY OF CINCINNATI
205	В	SYSTEM DYNAMICS INC	345	N	UNIVERSITY OF COLORADO
331	В	SYSTEMS & ELECTRONICS INC	441	N	UNIVERSITY OF CONNECTICUT
466	В	SYSTEMS & LOGISTICS CORP	110	N	UNIVERSITY OF DAYTON
235	В	SYSTEMS & SIMULATIONS INC	298	N	UNIVERSITY OF FLORIDA
242	В	SYSTEMS PLANNING & ANALYSIS	484	N	UNIVERSITY OF HAWAII
132	В	SYSTEMS PLANNING CORP	125	N	UNIVERSITY OF ILLINOIS
263	В	SYSTEMS RES APPLICATIONS CORP	183	N	UNIVERSITY OF MARYLAND
104	В	SYSTEMS RESEARCH LABORATORIES	202	N	UNIVERSITY OF MASSACHUSETTS
449	В	SYSTRAN CORP	207	N	UNIVERSITY OF MICHIGAN
482	В	T S C INC	83	N	UNIVERSITY OF MINNESOTA
195	В	TACTICAL TRUCK CORPORATION	182	N	UNIVERSITY OF NEW MEXICO
268	F	TADIRAN ELECTRONIC INDUSTRIES	388	N	UNIVERSITY OF NORTH CAROLINA
495	В	TECHDYN SYSTEMS CORPORATION	229	N	UNIVERSITY OF PENNSYLVANIA
461	В	TECHNICAL & MGT SVCS CORP	426	N	UNIVERSITY OF PITTSBURGH
481	В	TECHNOLOGY DEVELOPMENT CORP	432	N	UNIVERSITY OF RHODE ISLAND
487	В	TECOLOTE RESEARCH INC	306	N	UNIVERSITY OF ROCHESTER
340	В	TELECHMUNICATION SCIENCE ASSOC	85	N	UNIVERSITY OF SOUTHERN CALIF
35	В	TELEDYNE INDUSTRIES INC	74	N	UNIVERSITY OF TEXAS SYSTEM
299	В	TETRA TECH INC	337	N	UNIVERSITY OF UTAH
314	N	TEXAS A & M UNIV SYS THE	349	N	UNIVERSITY OF VIRGINIA
39	В	TEXAS INSTRUMENT M MARIETTA JV	103	N	UNIVERSITY OF WASHINGTON
36	В	TEXAS INSTRUMENTS INCORPORATED	300	N	UNIVERSITY OF USCONSIN SYSTEM
489	N	TEXAS TECH UNIVERSITY	78	N	UTAH STATE UNIVERSITY
431	В	TEXTRON INC	405	В	VARIAN ASSOCIATES INC
342	В	TG BAUER ASSOCIATES	291	В	VECTOR RESEARCH COMPANY INC
400	В	THERMO ELECTRON TECH CORP	147	В	VEDA INCORPORATED
238	В	THINKING MACHINES CORPORATION	295	N	VIRGINIA PLYTCHNIC INST ST UNI
111	В	THIOKOL CORPORATION	455	В	VISIDYNE INC
375	В	TINSLEY LABORATORIES INC	98	В	VITRO CORPORATION
415	В	TITAN SYSTEMS INC	204	В	VITRONICS INC
362	В	TOYON RESEARCH CORP	225	В	VSE CORPORATION
94	В	TRACOR APPLIED SCIENCES INC	406	В	Waddan Systems
472	В	TRACOR FLIGHT SYSTEMS INC	272	В	WALLACE & CO
413	В	TRUAX ENGINEERING	282	В	WALLACE T H INC
10	В	TRU INC	133	В	WATKINS JOHNSON COMPANY
480	В	TS INFOSYSTEMS INC	412	В	WEIDLINGER ASSOCIATES INC
245	В	UNION CORPORATION	478	N	WENTWORTH INST OF TECHNOLOGY
20	В	UNISYS CORPORATION	192	В	WESTERN INSTRUMENT CORPORATION
297	В	UNITED INTERNATIONAL ENGRG	136	В	WESTERN RESEARCH CORPORATION
135 454	F N	UNITED KINGDOM MINISTRY OF DEF UNITED STATES DEPT ENERGY	11 377	B B	WESTINGHOUSE ELECTRIC CORP WESTON ROY F INC
	•			_	
344	Ņ	UNITED STATES DEPT OF COMMERCE	383	В	WILLIAMS INTERNATIONAL CORP
18	В	UNITED TECHNOLOGIES CORP	140	N	WOODS HOLE OCNGRPHIC INSTUTE
129	В	UNIVERSAL ENERGY SYSTEMS INC	358	В	WYLE LABORATORIES
241 221	В	UNIVERSAL TECHNOLOGY CORP	277	В	XONTECH INC
221	N	UNIVERSITY OF ALABAMA	l 326	N	YALE UNIVERCITY

^{*} B = Business Firm F = Foreign Contractor N = Nonprofit Institution

Table 2. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Business Firms: FY 1989

ank	Name of Contractor Location of Work						Name of Cont Location of		Thousands of Dollars	
1	MARTIN MARIETTA CORPO	DPATTON.	1,991,995 *		GENERAL ELECTRIC CO					
•	San Diego	California	100		Pittsfield	Mass	8,380			
	Vandenberg AFB	California	1,341	į.	Canden	New Jersey	13,619			
	Amity	Colorado	19,535	ŀ	Cherry Hill	New Jersey	580			
	Denver	Colorado	1,760,958		Moorestown	New Jersey	64,048			
	Littleton	Colorado	19,159	- 1	Princeton	New Jersey	45,626			
	₩aterton	Colorado	695		Schenectady	New York	128,666			
	Fort Walton Be	Florida	262		Syracuse	New York	62,082			
	Orlando	Florida	127,505	- 1	Utica	New York	46,502			
	Rolling Meadow	Illinois	400	i	Cincinnati	Ohio	295,117			
	Baltimore	Maryland	50,653]	Horsham	Penn	27			
	Bethesda	Maryland	5,298		King of Prussi		3,205			
	Glen Burnie	Maryland	1,446		Philadelphia	Penn	86,047			
	Halethorpe	Maryland	553	1	Valley Forge	Penn	2,000			
	Lansdowne-Balt		55		Warminster	Penn	372			
	Middle River	Maryland	2,610		Burlington	Vermont	15,474			
	Albuquerque	New Mexico	1,010	1	Wallops Flight		9,456			
	Rome	New York	99		Seattle	Washington	167			
	Fairfax	Virginia	35		Yona	Marshall I	1,158			
	Vienna	Virginia	250	1 -	DOGNIELL TREEDWARTON	AT COOP	013 014 #			
		GERMANY, F	31	6	ROCKWELL INTERNATION		813,914 *			
2	MCDONNELL DOUGLAS CO.	MOTTAGO	1 711 222 *		Amador	California	111- 174 285			
2	MCDONNELL DOUGLAS COM		1,711,232 *	1	Anaheim	California California	174,285			
	Huntsville	Alabama	8,833		Concord	California	100 54 701			
	El Segundo	California	47		Downey	California	54,701			
	Huntington Bea		172,416	1	El Segundo	California	148 509,202			
	Long Beach	California	1,317,828	į.	Los Angeles	California				
	Amity	Colorado	11,479		San Bernardino		20,796			
	Patuxent River		72 737	i	Santa Barbara	California California	1,002			
	Sterling Heigh				Seal Beach	California	4,493 10,922			
	Berkeley	Missouri Missouri	2,583	1	Thousand Oaks		895			
	St Louis		196,252	ſ	Colorado Sprin					
	Bethpage AFR	New York	85 860	l l	Duluth	Georgia	12,969			
	Bergstrom AFB	Texas	40	1	Norcross	Georgia	1,348 3,983			
	San Antonio	Тек а в	40	ĺ	Cedar Rapids	Iowa New Mexico	5, 963 52			
3	GENERAL DYNAMICS CORE	OODATION	1,177,574 *		Albuquerque	New Mexico	12,097			
3		California	23,047	ļ.	Kirtland AFB Columbus	Ohio	405			
	Ontario Pomona	California	29,832	1	Tulsa	Oklahoma	689			
	Rancho Cucamon		1,907		Richardson	Texas	5,589			
	San Diego	California	181,226	1	Shannon	Texas	349			
	Groton	Conn	54,082	i i	SHAIRION	16400	343			
	Bellwood	Illinois	400	1 7	FOUNDATION HEALTH CO	RPORATION	639,309 *			
	Center Line	Michigan	4,198	J '	Sacramento	California	639,309			
	Sterling Heigh		164,938	ļ	odel anemo	00111011110	005,005			
	Troy	Michigan	122	8	MCDONNELL DGLS GEN D	YNAMICS JV	620,000 *			
	Warren	Michigan	2,845	"	St. Louis	Missouri	200,000			
	St. Louis	Missouri	3,593	1	Fort Worth	Texas	420,000			
	Lina	Ohio	631,086				, •••			
	Middletown	Rhode Isld	303	وا	RAYTHEON COMPANY		614,563 *			
	Fort Worth	Texas	78,369		Goleta	California	3,682			
	Harlingen	Техав	695	i i	Oxnard	California	269			
	Arlington	Virginia	931	1	Cockeysville	Maryland	86			
					Andover	Mass	55,567			
4	BOEING COMPANY THE		905,446 *	l l	Bedford	Mass	136,317			
	Huntsville	Alabama	95,642	- 1	Burlington	Mass	796			
	San Diego	California	299		Lexington	Mass	1,577			
	Wichita	Kansas	32.046	ŀ	Lowell	Mass	1, 197			
	Bend	Oregon	500	i	Marlborough	Mass	27,937			
	Philadelphia	Penn	4,619		Norwood	Mass	1,880			
	Pomeroy	Penn	50		Quincy	Mass	603			
	Ridley	Penn	692	í	Sudbury	Mass	207,882			
	Houston	Техав	90	1	Tewksbury	Mass	736			
	Kent	Washington	80,273	l	Waltham	Mass	1,566			
	Seattle	Washington	691,235	1	Wayland	Mass	157,875			
			, — · · =	I	West Andover	Mass	12,977			
5	GENERAL ELECTRIC CO		903,154 *	1	Portsmouth	Rhode Isld	1,779			
-	Huntsville	Alabama	64,660	- 1	Bristol	Tennessee	1,902			
	Williams AFB	Arizona	5,750	- 1	- 4 - 4	SPAIN	65-			
	Daytona Beach	Florida	205	1			••			
	Mount Carmel	Maryland	7,225	1						
	Suitland	Maryland	143							
	Burlington	Mass	4,453	1						
	Fitchburg	Mass	15,975	1						
	r r comman E	Mass	22,217	1						

^{- =} Minus Amount (Cancellations Exceed New Awards) S = Small Business

Table 2. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Business Firms: FY 1989

ank	Name of Contractor Location of Work				Name of Contractor Location of Work		Thousands of Dollars	
10								
	Huntsville	Alabama	11,078	- 1	Albuquerque	New Mexico	21,307	
	Los Angeles	California	1,403	1	Horsham	Penn	792	
	Redondo Beach	California	322 (715		West Chester	Penn	35	
	San Bernardino	California	209,151	- 1	Springfield	Virginia	75	
	San Diego	California	4,369		Bellevue	Washington	31	
	Sunnyvale	California	253	- 1			<u>-</u>	
	New London	Conn	360	J 15	HUGHES AIRCRAFT COMPA	NY	411,818 *	
	Warner Robins	Georgia	387	1	Huntsville	Alabama	1,960	
	Bedford	Mass	197		Tucson	Arizona	6,658	
	Boston	Mass	486-		Buena Park	California	3,124	
	Albuquerque	New Mexico	72		Carlsbad	California	750	
	Beavercreek	Ohio	1,594	ļ	Compton	California	1,500	
	Dayton	Ohio	14,741	1		California	230	
		Ohio	752		Culver City		223,527	
	Wright Patters				El Segundo	California		
	Fairfax	Virginia	8,937	1	Fullerton	California	54,181	
	Falls Church	Virginia	534		Goleta	California	32,048	
	McLean	Virginia	1,619		Irvine	California	309	
	HEATINGHAME PLACES		E20 454 #	- 1	Long Beach	California	103	
11	WESTINGHOUSE ELECTRIC		520,451 *		Los Angeles	California	69,787	
	Sunnyvale	California	90,847		Los Angeles Ai		197	
	Annapolis	Maryland	203	1	Malibu	California	10,570	
	Baltimore	Maryland	104,740	1	Newport Beach	California	648	
	Baltimore-Wash		4,730	1	San Diego	California	921	
	Chelsea Beach	Maryland	800	J	Torrance	California	3,535	
	Cockeysville	Maryland	277	1	West Covina	California	52-	
	Linthicum	Maryland	420		Des Plaines	Illinois	67	
	Linthicum Heig	Maryland	2,028	1	Minneapolis	Minnesota	400	
	Silver Spring	Maryland	377	l l	St. Anthony	Minnesota	409	
	Vater town	Mass	110	I	Albuquerque	New Mexico	829	
	Melville	New York	109		Dahlgren	Virginia	117	
	Cleveland	Ohio	52,727		<u> </u>			
	Wright Patters		308	18	UNITED TECHNOLOGIES C	ORP	354,382 *	
	Borough	Penn	3,715-	1	San Jose	California	2,912	
	Pittsburgh	Penn	11,770	- 1	Sunnyvale	California	260	
	State College	Penn	34	J	East Hartford	Conn	12,822	
	West Mifflin	Penn	254,686		Hartford	Conn	1,208	
	ocot militim		257,000	1	South Windsor	Conn	1,723	
12	GRUMMAN AEROSPACE COR	MOTTAGOG	519,884 *		Stratford	Conn	2,146	
16	Edwards AFB	California	4,096	1	Windsor Locks	Conn	2,381	
	Melbourne	Florida	32,862	1	Country Club E	Florida	80,810	
	Bethpage	New York	477,827		Flora	Florida	1,684	
	Great River	New York	359		Kite	Florida	66	
	Melville	New York		- 1				
	Maiaiiie	MER TOLK	4,740		West Palm Beac	Florida	247,683	
10	TOCKUPED MICCITED & C	70406 00	402 000 #		Dayton	Ohio	465	
13	LOCKHEED MISSILES & S		483,889 *	- 1	Fort Washingto	Penn	222	
	Huntsville	Alabana	1,802	۱ 🕰	INITALE COPPOSITOR		000 400 #	
	Burbank	California	305	20	UNISYS CORPORATION		308,187 *	
	Palo Alto	California	25,147	1	Glendale	Arizona	225	
	Santa Clara	California	50	ſ	Camarillo	California	250	
	Sunnyvale	California	443,428		Clearwater	Florida	7,114	
	Hercury	Nevada	250	1	St. Paul	Minnesota	16,385	
	Albuquerque	New Mexico	850	1	Great Neck	New York	273,687	
	Austin	Тенав	12,057		Dayton	Ohio	274	
				l.	Paoli	Penn	1,915	
14	HONEYUELL INC		463,893 *		Trevose	Penn	1,536	
	Glendale	Ar izona	272	1	Warminster	Penn	716	
	Phoenix	Ar izona	2,872	1	Salt Lake City	Utah	2,697	
	Petaluma	California	1,300	- 1	Dahlgren	Virginia	627	
	San Diego	California	2,184	1	McLean	Virginia	98	
	Clearwater	Florida	16,520		Reston	Virginia	2,663	
	Lexington	Maes	42,986				-,	
	Wilmington	Mass	385	22	LOCKHEED CORPORATION		292,283 *	
	Bloomington	Minnesota	5,912		Burbank	California	175,882	
	Brooklyn Park	Minnesota	8,326	i	Ontario	California	944	
	Edina	Minnesota	8,038	1	Paladale	California	52,000	
	Golden Valley	Minnesota	341		Saugus-Bouquet		3,286	
				1	•	California		
	Hopkins Hippoppolis	Minnesota	258,291 16,524		Sunnyvale	California	141	
	Minneapolis	Minnesota	16,524 67,000	1	Marietta	Georgia	17,047	
	Minnetonka New Brishan	Minnesota	67,998	1	Manchester	N.H.	2,315	
	New Brighton	Minnesota	162		Merrinack	N.H.	248	
	Plymouth	Minnesota	3,272		Nashua	N.H.	42,642	
	Roseville	Minnesota	50	1	Denville	New Jersey	166	
	Twin Cities AA	Minnesota	382	1	White Sands Ms	New Mexico	2,388-	

^{- =} Minus Amount (Cancellations Exceed New Awards) S = Small Business

Table 2. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Business Firms: FY 1989

Rank	Name of Contra Location of V		Thousands of Dollars	Rank	Name of Contr Location of		Thousands of Dollars
23	BELL BOEING JV Fort Worth	Текав	274,178 * 274,178	31	SCIENCE APPLICATIONS		143,709 *
24	INTERNATIONAL BUS MC	HS CORP	252,227 *		Huntsville Redstone Arsen	Alabama Alabama	9,124 150
	San Jose	California	699	1	Tucson	Arizona	2,396
	Thousand Oaks	California	9,050	ŀ	Hermosa Beach	California	7,340
	Boulder Denver	Colorado Colorado	61,693 500		Irvine Los Angeles	California California	84 149
	Eglin Air Forc	Florida	768	í	Newport Beach	California	268
	Honolulu	Hawaii	45	1	Placentia	California	3,176
	Gaithersburg	Maryland	42,668		San Diego	California	57,324 6,954
	Owego Yorktown Heigh	New York New York	18,564 1,725	ł	Torrance Colorado Sprin	California Colorado	6,854 45
	Oklahoma City	Oklahoma	69		Englewood	Colorado	90
	Houston	Texas	655	i	Vashington	D.C.	1,200
	Manassas	Virginia	115,791		Fort Walton Be	Florida	321
25	LITTON SYSTEMS INC		251,049 *	Į.	Orlando Honolulu	Florida Hawaii	394 48
25	Concord	California	200	l l	Kailua	Hawaii	895
	Los Angeles	California	21,277		Cambridge	Mass	448
	Mountain View	California	250	•	Rochester	Minnesota	715
	San Jose	California	534 6.724	l	Las Vegas	Nevada N.H.	371 49
	Sunnyvale Woodland	California California	6,72 4 110	1	Salem Albuquerque	N.H. New Mexico	1,223
	Colorado Sprin		212,484	i	Rome	New York	348
	South Windsor	Conn	460		Dayton	Ohio	7,628
	Orlando	Florida	1,471	1	Uright Patters	Ohio	750
	Atlanta Davenport	Georgia Iowa	1,581 358	ļ	Vayne Alexandria	Penn Virginia	129 300
	College Park	Maryland	75		Arlington	Virginia	4,332
	Morris Plains	New Jersey	217	Į.	Dahlgren	Virginia	130
	Melville	New York	343		Falls Church	Virginia	2,044
	Williamsport Salt Lake City	Penn Utah	240 4,725		Hampton McLean	Virginia Virginia	95 35,289
26	A T & T TECHNOLOGIES		214,610 *	32	NORTHROP CORPORATION	G-1:5	142,496 #
	Eatontown Hopewell	New Jersey New Jersey	270 179		Anaheim El Segundo	California California	1,394 287
	New Providence		935		Hawley	California	248
	Whippany	New Jersey	12,650		Hawthorne	California	16,998
	Greensboro	N Carolina	190,430	- 1	Paladale	California	118,850
	Allentown-Beth Reading	Penn Penn	1,264 8,882		Palos Verdes P Pico Rivera	California California	294 1,120
	nedding	· e.u.	•	i	Rantoul	Illinois	500
27	MOTOROLA INC		166,772 *	1	Rolling Meadow	111inois	1,692
	Phoenix	Arizona	120	ł	Norwood	Mass	1,113
	Scottsdale Toppo	Arizona	158,918 7,266	33	COLLINS INTERNATIONAL	anc co	127,623 *
	Tempe Baltimore	Arizona Maryland	7,266 468] "	Cedar Rapids	Iowa	76,839
		-		1	Richardson	Texas	50,784
28	FORD AEROSPACE COMMC		165,766 *		ATTIED CICHAT ADDOCONA	æ œ	446 4FA #
	El Monte Newport Beach	California California	377 7,497	34	ALLIED SIGNAL AEROSPA Phoenix	CE CU Arizona	116,159 * 5,918
	Palo Alto	California	3,360		Los Angeles	California	1,150
	San Jose	California	92,734		Torrance	California	9,604
	Sunnyvale	California	6,218	1	Washington	D.C.	595
	Colorado Sprin	Colorado	45,438 9,983	l	Mishawaka South Bend	Indiana Indiana	80 829
	Leaverwor th	Kansas Korea, Rep	9,983 159		South bend Baltimore	Haryland	53, 684
		,		1	Cloverlea	Maryland	500
29	LTV AEROSPACE & DEF		157,577 *		Columbia	Haryland	37,621
	Camden Dallas	Arkansas Texas	35- 143-665		La Plata St. Inigoes	Maryland	124
	Grand Prairie	Текав Текав	143,665 13,947	ł	Towson	Maryland Heryland	1,910 793
			,	J	Hercury	Nevada	3,302
30	ITT CORPORATION		143,915 *		Teterboro	New Jersey	49
	Los Angeles	California	18,068	25	TELEBRAS INDICATOR IS	NAC-	112 746 8
	San Diego Fort Wayne	California Indiana	72 10,715	35	TELEDYNE INDUSTRIES II Huntsville	NC Alabama	113,746 * 74,205
	Clifton	New Jersey	620	ſ	Hollister	California	41
	Nutley	New Jersey	112,356		Palo Alto	California	612
	Wright Patters	Ohio	787		San Diego	California	20,430
	Easton Fort Worth	Penn Texas	300 614	I	Santa Clara Muskegon	California Michigan	3,162 12,269
	Roanoke	Virginia	383		Toledo	Ohio	1,815

^{- =} Minus Amount (Cancellations Exceed New Awards) S = Small Business

Table 2. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Business Firms: FY 1989

Rank	Name of Contra Location of V		Thousands of Dollars	Rank	Name of Contr Location of		Thousands of Dollars
	TELEDYNE INDUSTRIES	INC			CALSPAN CORPORATION	<u></u>	
	Albany	Oregon	120	- i	Melbourne	Florida	75
	Garland	Texas	67		Bedford	Mass	55
	Alexandria	Virginia	1,025		Wayland	Mass	30
			•		Buffalo	New York	18,896
36	TEXAS INSTRUMENTS INC	CORPORATED	105,249 *		Rochester	New York	123
	Ridgecrest	California	5,141	l l	Springville	New York	77
	San Diego	California	217		Utica	New York	50
	Colorado Sprin		417		Dayton	Ohio	265
	Dallas	Texas	72,941	i i	Norristown	Penn	323
	Dallas-Fort Wo	Texas	123		Pittsburgh	Penn	75
	Lewisville	Texas	25,286		Arnold AFS	Tennessee	51,776
	McKinney	Техав	999				55,
	Sherman	Техая	125	45	HARRIS CORPORATION		66,839 *
	O.K.I Hall	TOMAD	123	'	Lauderhill	Florida	250
37	COMPUTER SCIENCES CO	MO 1 TAGOGG	89,444 *		Melbourne	Florida	51,988
31			4 600				3 040
	Huntsville	Alabama	4,689	1	Orlando	Florida	3,949
	Camarillo Cam Diogo	California	20,573	l l	Pala Bay	Florida	2,787
	San Diego	California	7,042	1	Winter Park	Florida	2,240
	Ventura	California	7,500	1	Omaha	Nebraska	100
	Fort Walton Be		1,581	1	Rochester	New York	1,275
	Moorestown-Len		13,326	1	Syosset	New York	4,250
	Oceanport	New Jersey	265	1			
	Shrewsbury	New Jersey	2,448	46	LORAL CORPORATION		66,145 #
	Albuquerque	New Mexico	6,429	1	Litchfield Par		6,673
	Huntingdon Val		2,253	1	Milpitas	California	289
	Warminster	Penn	1,060	I	Palo Alto	California	186
	Dahlgren	Virginia	10,769	ı	Pasadena	California	6,857
	Falls Church	Virginia	11,509	1	Dania	Florida	74
		-	•	1	Akron	Ohio	52,066
38	AEROJET		83,494 *	1			•
	Azusa	California	46,674	47	SVERDRUP TECHNOLOGY	INC	57,049 *
	Downey	California	30,912	1	Wright Patters		917
	Sacramento	California	5,908	- 1	Arnold AFS	Tennessee	54,892
			-,	1	Tullahoma	Tennessee	1,240
39	TEXAS INSTRUMENT M M	ARIETTA JV	82,350 *	1			-,- '
	Lewisville	Техав	82,350	48	BOEING CO & SIKORSKY	ACET IV	57,000 *
	20-104 1116	2000	· ,	1 ~	Philadelphia	Penn	57,000
40	GTE GOVERNMENT SYSTEM	MS CORP	80,991 *	1	· III ZONIC ZPIIZO		5.,000
	Mountain View	California	1,191	49	MCDONNELL DGLS BELL H	IFT. TEX TV	57,000 *
	Colorado Sprin		601	""	Mesa	Arizona	57,000
	Billerica	Mass	15,867	- I	**500	71 14V1 RE	31,000
	Needham	Mase	55,056	50	KEARFOTT GUIDANCE NAV	ชุดกา ภาง	56,576 *
	Westborough	Mass	6,032	~	Little Falls	New Jersey	48,015
	Vienna	nass Virginia	130	1			40,015 97
				1	Newark	New Jersey	
	Yona	Marshall I	2,114	1	Wayne	New Jersey	8,464
41	DOM INTERNATIONAL TO	•	00 057 4	1	HEDGITES THOODSON		EC 054 #
41	BDM INTERNATIONAL INC		80,057 *	52	HERCULES INCORPORATED		55,251 *
	Huntsville	Alabama	25,572	1	Clearwater	Florida	4,300
	Eglin Air Forc		944	1	Cumberland	Maryland	948
	Tyndall AFB	Florida	1,150		Magna	Utah	19,114
	Fort Knox	Kentucky	675	- 1	Rocket Center	U Virginia	30,889
	Columbia	Maryland	200	- 1			
	Albuquerque	New Mexico	10,087	55	E SYSTEMS INC		53,197 *
	Arlington	Virginia	60	1	Saint Petersbu	Florida	25,663
	McLean	Virginia	40,457	J	Warwick	Rhode Isld	1,552
	Norfolk	Virginia	′737		Dallas	Texas	19,150
	Springfield	Virginia	175	ł	Garland	Texas	100
	- -	-		1	Greenville	Техав	5,792
42	FMC CORPORATION		79,333 *	j	Salt Lake City	Utah	940
	Anniston	Alabama	542				
	San Gregorio	California	3,000	56	MCDONNELL DOUGLAS HEI	LICOPTER	51,766 *
	San Jose	California	45,964	1 **	Mesa	Arizona	51,766
	Santa Clara	California	18,767	1			,
	Minneapolis	Minnesota	11,060	59	ANALYTIC SCIENCES COR	OP THE	48,836 *
			12,000	""	Mountain View	California	627
44	CALSPAN CORPORATION		72 444 #	l l		Florida	
77		Alebera	72,444 *	1	Fort Walton Be		3,352
	Auburn	Alabama	35 46	ſ	Reading	Maee	39,675
	Tucson	Arizona	46		Fairborn	Ohio	5,127
	Davis	California	75	1	Arlington	Virginia	55
	Del Mar	California	99	1			
	Menlo Park	California	198	1			
	Redondo Beach	California	47				
	Denver	Colorado	99	1			
	Norwalk	Conn	100	1			

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Table 2. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Business Firms: FY 1989

Rank	Name of Contra Location of V		Thousands of Dollars	Rank	Name of Contr Location of		Thousands of Dollars
60	LIGHT HELICOPTER TURI	BIN ENG Missouri	47,926 * 47,926	79	MARTIN MARIETTA DIEHI Orlando	. THORN JV Florida	31,530 * 31,530
61	EATON CORPORATION El Segundo	California	47,512 * 202	80	NICHOLS RESEARCH CORE		s 31,206 *
	Thousand Oaks	California	1,265	"	Huntsville	Alabama	30,236
	Westlake Villa	California	1,600		Albuquerque	New Mexico	579
	Beverly	Mass	30	1	White Sands Ms	New Mexico	391
	Deer Park Deer River	New York New York	36,136 7,500	81	COLSA INC		S 30,504 *
	Melville	New York	7,609 670	1 %	Huntsville	Alabama	18,918
			0.0	1	Jackson Ranche	California	11,254
62	AVCO CORPORATION		46,750 *	İ	El Paso	Текав	332
	Stratford	Conn	1,782				
	Stratford AEP	Conn	2,003 73	82	GENERAL RESEARCH CORF	ORATION Alabama	30,406 * 11,507
	Fort Walton Be Lowell	Florida Mass	764	1	San Geronimo	California	30
	Wilmington	Mass	42,128	ı	Santa Barbara	California	16, 123
			ŕ		McLean	Virginia	2,746
64	SANDERS ASSOCIATES IN		43,000 *				"
	Hudson	N.H.	373	84	AVCO RESEARCH LABORAT		29,430 *
	Manchester Merrimack	N.H. N.H.	872 842	1	Puunene Everett	Hawaii Mass	11,063 18,367
	Nashua	N.H.	19,769		PAG1 CFF		20,501
	North Bergen	New Jersey	21,144	86	ATLANTIC RESEARCH COR	PORATION	29,148 *
			,		Canden	Arkansas	174
66	JOHNSON CONTROLS INC		41,103 *	1	Los Angeles	California	230
	Cape Canaveral Mercurv	Florida Nevada	25,026 360]	Menlo Park Rockville	California	300 4,152
	Yona	Marshall I	15,717		Severna Park	Maryland Maryland	1,030
	1012		13,71		Shrewsbury	New Jersey	2,986
67	BALL CORPORATION		38,284 *	l l	Albuquerque	New Mexico	3,235
	Anaheim	California	288	Ì	White Sands Ms	New Mexico	97
	George AFB	California	1,413		Bethpage	New York	399
	San Diego Boulder	California Colorado	9,359 20,973		Buffalo Niagara Falls	New York New York	150 146
	Broomfield	Colorado	527	1	Rome	New York	2,969
	Califon	New Jersey	250	1	Syracuse	New York	32
	Albuquerque	New Mexico	2,815		Dayton	Ohio	262
	Kirtland AFB	New Mexico	525		Philadelphia	Penn	1,212
	Fairborn	Ohio Ohio	190	i	Warminster	Penn Virginia	97 3,059
	Wright Patters Bergstrom AFB	Texas	1,745 199		Alexandria Arlington	Virginia Virginia	134
	bei soli dii nib	2011000			Charlottesvill	Virginia	30
68	INTERSTATE ELECTRONIC		38,097 *	1	Fredericksburg	Virginia	2,569
	Anaheim	California	38,097		Gainesville	Virginia	5,199
70	MAXWELL LABORATORIES	TNC	26 402 #	1	Vienna	Virginia	686
70	Placentia	California	36,493 * 27	87	HARSCO CORPORATION		29,055 *
	San Diego	California	34,595	ĭ'	York	Penn	29,055
	Albuquerque	New Mexico	1,676	ļ			·
	Richmond	Virginia	195	89	BOLT BERANEK & NEUMAN		28,645 *
71	GENERAL MOTORS CORPOR	DATT ON	36,221 *	1	Los Angeles New London	California Conn	934 953
11	Hampton	Conn	36,221 * 593		Glerwood	Maryland	200
	Indianapolis	Indiana	22,649		Cambridge	Mass	26,522
	Troy	Michigan	40	1	Arlington	Virginia	36
	Warren	Michigan	12,939		MIDOLON DESCRIPTION	0048101	a 20 212 #
72	GENCORP INC		34,068 *	90	MISSION RESEARCH CORP Santa Barbara	ORATION California	S 28,348 *
16	Nimbus	California	34,068 * 167	1	Colorado Sprin	Colorado	20,451 293
	Sacramento	California	33,610	1	Washington	D.C.	182
	Sacramento Arm	California	105	1	Nashua	N.H.	1,746
	Fort Walton Be	Florida	186	1	Albuquerque	New Mexico	5,186
73	KAMAN SCIENCES CORPOR	DATT CAL	22 550 #	[Dayton	Ohio Virginia	246
13	Huntsville	KALIUN Alabama	33,568 * 391		Alexandria Newington	Virginia Virginia	44 200
	Santa Barbara	California	4,166		Index of Coll		+44
	Santa Monica	California	114	91	SPARTA INC		S 28,125 *
	Colorado Sprin	Colorado	22,484		Huntøville	Alabama	6,823
	Burlington	Mass	230		Del Mar	California	1,007
	Albuquerque Utica	New Mexico New York	4, 973 86	ļ	Edwards AFB Laguna Beach	California California	6,750 234
	Alexandria	Virginia	823		Laguna Hills	California	7,647
	Arlington	Virginia	301	ı	Placentia	California	423

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Table 2. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Business Firms: FY 1989

92 93 94	SPARTA INC San Diego Lexington McLean SPACE DATA CORPORATIO Tempe G & F COMPANY Santa Clara TRACOR APPLIED SCIENC San Diego San Ramon Groton	Arizona California	2,281 230 2,730 S 28,069 * 28,069 26,695 *	104	SYSTEMS RESEARCH LABO Dayton Wright Patters San Antonio ACUREX CORPORATION	RATORIES Ohio Ohio Texas	22,842 * 12,437 9,324 1,081
93	San Diego Lexington McLean SPACE DATA CORPORATIO Tempe G & F COMPANY Santa Clara TRACOR APPLIED SCIENC San Diego San Ramon	Mass Virginia ON Arizona California	230 2,730 S 28,069 * 28,069 26,695 *		Dayton Wright Patters San Antonio ACUREX CORPORATION	Ohio Ohio	12,437 9,324
93	Lexington McLean SPACE DATA CORPORATIO Tempe G & F COMPANY Santa Clara TRACOR APPLIED SCIENC San Diego San Ramon	Mass Virginia ON Arizona California	230 2,730 S 28,069 * 28,069 26,695 *	106	San Antonio ACUREX CORPORATION		9,324
93	McLean SPACE DATA CORPORATIO Tempe G & F COMPANY Santa Clara TRACOR APPLIED SCIENC San Diego San Ramon	ON Arizona California	8 28,069 * 28,069 26,695 *	106	San Antonio ACUREX CORPORATION	Texas	
93	Tempe G & F COMPANY Santa Clara TRACOR APPLIED SCIENC San Diego San Ramon	Arizona California	28,069 26,695 *	106			
93	Tempe G & F COMPANY Santa Clara TRACOR APPLIED SCIENC San Diego San Ramon	Arizona California	28,069 26,695 *				22,239 *
	G & F COMPANY Santa Clara TRACOR APPLIED SCIENC San Diego San Ramon		26,695 #		Mountain View	California	11,224
	Santa Clara TRACOR APPLIED SCIENC San Diego San Ramon				Dayton	Ohio	4,475
94	TRACOR APPLIED SCIENC San Diego San Ramon		26,695		Wright Patters	Ohio	6,540
94	San Diego San Ramon	CES INC		107	JAYCOR		21,556 *
J.	San Diego San Ramon		26,300 *	1 201	Los Angeles	California	1,357
	San Ramon	California	293		San Diego	California	14,774
		California	194	1	Colorado Sprin	Colorado	272
		Conn	1,013	[Washington	D.C.	1,563
	New London	Conn	276	1	Edgewood Arsen	Maryland	228
	California	Maryland	196		Vicksburg	Miss	63
	Laurel	Maryland	55	- 1	Dayton	Onio	643
	Rockville	Maryland	245		Fairborn	Ohio	1,281
	Austin	Texas	24,028		Vienna	Virginia	1,375
95	R & D ASSOCIATES		26,209 *	108	BOOZ ALLEN & HAMILTON	INC	21,459 *
	Marina del Ray	California	15,577		Huntsville	Alabama	1,380
	Alameda	California	150	1	Washington	D.C.	192
	Albuquerque	New Mexico	429	J	Bethesda	Maryland	16,071
	Kirtland AFB	New Mexico	7,091	1	Silver Spring	Maryland	´ 36-
	Alexandria	Virginia	490	1	Tinton Falls	New Jersey	1,294
	Arlington	Virginia	190	1	Albuquerque	New Mexico	1,803
	Fort Lewis	Washington	93	1	Fort Worth	Техая	262
		GERMANY, F	2,189		Arlington	Virginia	493
96	MCDONNELL DOUGLAS TRE	NNG SYS	26,155 *	109	CONTEL FEDERAL SYSTEM	S INC	21,336 *
-	Norman	Oklahoma	26,155	1	Colorado Sprin		9,476
			,	1	Gaithersburg	Maryland	11,659
97	LOGICON INC		25,833 *		Fairfax	Virginia	201
	Los Angeles	California	15,660	l l			
	San Diego	California	6,569	111	THICKOL CORPORATION		20,824 *
	Bellevue	Nebraska	1,254	i i	Hunteville	Alabama	2,107
	Albuquerque	New Mexico	1,821	1	Elkton	Maryland	4,270
	Uright Patters	Ohio	479	- 1	Brigham City	Utah	14,397
	Fairfax	Virginia	50		Corinne	Utah	50
98	VITRO CORPORATION		25,296 *	112	SCHAFER U J ASSOCIATE		20,823 *
	San Francisco	California	117		Chelmsford	Mass	17,696
	Bath	Maine	1,445	1	Wakefield	Mass	250
	Bethesda	Maryland	101	l l	Arlington	Virginia	2,877
	Silver Spring	Maryland	15,338	1	GUOGOU GODDOOLEIG		24 454 #
	Sonoma Recondoule	Maryland	51	113	SYSCON CORPORATION	Alabama	20,273 *
	Pascagoula Moorestown-Lon	Miss	854 103	- 1	Mobile San Diogo	Alabama	80 3.050
	Moorestown-Len		102	J	San Diego	California	2,959
	Warminster Middletown	Penn Rhode Isld	545 73	1	New London	Conn D.C.	150 2 505
	Dahlgren	Virginia	6,670		Washington Middletown	Rhode Isld	2,605 461
	Politär ett	ATTENTO	0,070		Naval Underwat	Rhode Isld	60
99	ESL INCORPORATED		24,506 #	- 1	Newport	Rhode Isld	568
	Sunnyvale	California	24,396	1	Austin	Texas	48
	Elizabeth City	N Carolina	110	1	Dahlgren	Virginia	12,963
	<u>-</u>				Naval Surface	Virginia	379
100	ALLIED SIGNAL INC Phoenix	Ar izona	24,150 * 176	114	PERKIN ELMER CORPORAT	TON	10 026 #
	Los Angeles	California	380	1 *17	Hayward	California	19,826 * 2,000
	Torrance	California	1,090	- 1	Ponona	California	100
	Des Plaines	Illinois	1,090	1	Danbury	Conn	12,991
	Mishawaka	Indiana	41		Norwalk	Conn	2,435
	Baltimore	Maryland	4,874	1	Wilton	Conn	2,300
	Morristown	New Jersey	261	1			-,500
	Teterborn	New Jersey	17,149	115	C E OPERATIONS & MAIN	I SVC INC	19,432 *
	Charlotte	N Carolina	79	1	Sierra Vista	Arizona	19,240
				1	Windsor	Conn	192
102	MAGNAVOX GOVT & INDST	TRL ELCTR California	23,037 * 898				
	Fort Wayne	Indiana	20,867				
	Mahwah	New Jersey	1,272	- 1			

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Table 2. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Business Firms: FY 1989

Rank	Name of Contra Location of W		Thousands of Dollars	Rank	Name of Conti Location of		Thousand of Dollars	
116	KAMAN CORPORATION		19,362 *	134	ANALYSIS & TECHNOLOGY	/ INC	15,254	*
	Bloomfield	Conn	14,297	1	Groton	Conn	771	
	New Britain	Conn	5,065		New London	Conn	2,933	
			ŕ		New London Nav	Conn	361	
117	SMITHS INDUSTRIES INC	USA	19,201 *	1	North Stoningt	Conn	4,007	
	Grand Rapids	Michigan	19,201	1	Panama City Be	Florida	5,060	
	-	_	•		Newport .	Rhode Isld	[′] 50	
118	LORAL FAIRCHILD SYSTE	MS INC	19,126 *	i	Arlington	Virginia	1,720	
	Syosset	New York	11,979		Chesapeake	Virginia	352	
	Archbald	Penn	6,772	1	-	-		
	Horsham	Penn	375	136	WESTERN RESEARCH CORE	PORATION	14,530	*
					San Diego	California	14,530	
119	AEROJET ELECTRO SYSTE	MS	19,002 *		_		•	
	Azusa	California	19,002	137	CHAMBERLAIN MANUFACTU	JRING CORP	14,412	*
			•		Niles	Illinois	237	
120	A A I CORPORATION		18,760 *	1	North Aurora	Illinois	35	
	Cockeysville	Maryland	18,760		Waterloo	Iowa	8,000	
		•	,	l.	Saco	Maine	2,918	
121	CONTROL DATA CORPORAT	ION	18,096 *	1	Be thesda	Maryland	446-	
	Rockville	Maryland	87	ı	Cockeysville	Maryland	3,668	
	Bloomington	Minnesota	127			,	-,	
	Minneapolis	Minnesota	17,882	139	STEWART & STEVENSON S	SERVICES	14,186	*
			- ,		Houston	Техав	14,186	
.22	PHYSICS INTERNATIONAL	COMPANY	17,921 *	ı			,	
	San Leandro	California	17,259	141	EG&G WASHINGTON ALALY	TL SVC	13,947	*
	Andover	Mass	268	-'-	New London	Conn	2,693	
	Woodbridge	Virginia	394		Rockville	Maryland	7,767	
	20201 2480		•••	l l	Salem	Mass	325	
124	CBI NA CON INC		17,054 *	1	Kirtland AFB	New Mexico	200	
	Oak Brook	Illinois	33		Dahlgren	Virginia	2,962	
	Memphis	Tennessee	17,021		postaga Cit	7 a. g. 1140	۵, 302	
			,	142	LOCKHEED ELECTRONICS	CO.	13,896	*
.26	PAR TECHNOLOGY CORPOR	ATION	16,524 *	} ^~~	Denville	New Jersey	34	
.20	Los Angeles	California	67	1	Plainfield	New Jersey	945	
	Palo Alto	California	120	1	White Sands Ms	New Mexico		
	Redondo Beach	California	209	1	AUTIG SQUES UB	HER LIGHTCO	12,917	
	_	California	232	143	MILTOPE CORPORATION		S 13.886	*
	Santa Monica	Colorado	4,874	143		Nou Vorte	,	
	Colorado Sprin Trumbull	Conn	447	1	Melville	New York	13,886	
	Bellevue	Nebraska	55	144	PLANNING RESEARCH COR	DODATION	13,502	*
	Omaha	Nebraska	453	1 ***	Hickan AFB	Hawaii	1,629	
	Bethpage	New York	350	1	Offutt AFB	Nebraska	4,793	
	New Hartford	New York	6,905			Penn		
	New Hartiord Rome	New York	936		Philadelphia McLean		289 6 701	
	Syracuse	New York	748		McLean	Virginia	6,791	
	Utica	New York	746 504	145	SACHS FREEMAN ASSOCIA	TEC INC	S 13,437	*
	Arlington	Virginia	99	143				
			525	1	Washington Bothoods	D.C.	10,818	
	McLean	Virginia	252	1	Be thesda	Maryland	126	
127	M A COM TINVADIT THE		16 414 4	1	Landover	Maryland	2,493	
127	M A COM LINKABIT INC	C=1! f===!=	16,414 *	1	CONTRACTOR CONTRACTOR	n, tha	• • • • • • •	
	San Diego	California	12,295	146	CUMMINS ENGINE COMPAN		13,045	-
	Vienna	Virginia	4,119		Columbus	Indiana	13,045	
20	INTUENCAL SUPPORT COM	DMC THE	G 16 AMA #	1	uppa tugonoon.mnn		40 45-	
.29	UNIVERSAL ENERGY SYST		S 16,072 *	147	VEDA INCORPORATED		12,937	*
	Dayton	Ohio	15,287	- 1	Fort Walton Be	Florida	91	
	Wright Patters	Ohio	620		Lexington Park	Maryland	50	
	San Antonio	Тех а в	165		Reading	Mass	50	
			.=		Dayton	Ohio	5,283	
130	GENERAL ATOMICS		15,994 *		Warminster	Penn	4,745	
	San Diego	California	13,142	(Alexandria	Virginia	125	
	Albuquerque	New Mexico	2,852		Arlington	Virginia	2,593	
31	ARMORED VHCLE TCHNLOG		15,851 *	148	ELECTRONIC WARFARE AS		12,823	*
	Troy	Michigan	15,851	1	Huntøville	Alabama	7,750	
					Dayton	Ohio	232	
132	SYSTEMS PLANNING CORP		15,703 *	1	Vienna	Virginia	4,841	
	Santa Cruz	California	2,587	1		_		
	Arlington	Virginia	13,116	149	ANALYTICAL SYSTEMS EN	IGRG CORP	S 12,110	#
	•	- '	,	1	Salinas	California	201	
133	WATKINS JOHNSON COMPAN	NY	15,402 *	H	Westlake Villa	California	218	
	San Jose	California	15,402	1	Melbourne	Florida	479	
			,	1	Clarksburg	Maryland	434	
					Laurel	Maryland	450	
				- 1	Burlington	Maes	9,879	

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151 I 152 S 154 S 155 M 156 E 157 E	ANALYTICAL SYSTEMS ED Dayton Arlington INTERMETRICS INC Huntington Bea Betheeda Cambridge Oceanport Melville Dayton Warminster SPACE APPLICATIONS CO Santa Ana Santa Clara SPARTON CORPORATION FORT Wayne Jackson MCDONNELL DOUGLAS AS: Titusville St Louis EARTH TECHNOLOGY COR	Ohio Virginia GERMANY, F California Maryland Mass New Jersey New York Ohio Penn ORPORATION California California Indiana Michigan	220 43 44 11,906 * 1,666 1,093 568 3,400 33 738 4,408 S 11,893 * 1,570 10,323 11,836 * 6,694	170 171 172 173	AMERICAN SYSTEMS CORI Burlington Annandale Chantilly COLEMAN RESEARCH CORI Huntsville Orlando ASSURANCE TECHNOLOGY Melbourne Carlisle PACIFIC SIERRA RESEAL Edwards AFB Los Angeles Santa Monica	Mass Virginia Virginia PORATION Alabama Florida CORP Florida Mass RCH CORP California California	s s	10,344 * 2,147 7,144 1,053 10,134 * 7,073 3,061 10,053 * 899 9,154 10,030 * 490 5,669
151 I I I I I I I I I I I I I I I I I I	Dayton Arlington INTERMETRICS INC Huntington Bea Betheeda Cambridge Oceanport Melville Dayton Warminster SPACE APPLICATIONS CO Santa Ana Santa Clara SPARTON CORPORATION Fort Wayne Jackson MCDONNELL DOUGLAS AST Titusville St Louis	Ohio Virginia GERMANY, F California Maryland Mass New Jersey New York Ohio Penn ORPORATION California California Indiana Michigan	43 44 11,906 * 1,666 1,093 568 3,400 33 738 4,408 S 11,893 * 1,570 10,323 11,836 * 6,694	171	Burlington Annandale Chantilly COLEMAN RESEARCH CORN Huntsville Orlando ASSURANCE TECHNOLOGY Melbourne Carlisle PACIFIC SIERRA RESEAN Edwards AFB Los Angeles	Mass Virginia Virginia PORATION Alabama Florida CORP Florida Mass RCH CORP California California	-	2,147 7,144 1,053 10,134 * 7,073 3,061 10,053 * 899 9,154 10,030 * 490
152 S 154 S 155 M 156 E 157 E	Arlington INTERMETRICS INC Huntington Bea Bethesda Cambridge Oceanport Melville Dayton Warminster SPACE APPLICATIONS CO Santa Ana Santa Clara SPARTON CORPORATION Fort Wayne Jackson MCDONNELL DOUGLAS AST Titusville St Louis	California Maryland Mass New Jersey New York Ohio Penn ORPORATION California California Indiana Michigan	43 44 11,906 * 1,666 1,093 568 3,400 33 738 4,408 S 11,893 * 1,570 10,323 11,836 * 6,694	172	Annandale Chantilly COLEMAN RESEARCH CORN HUNTSVILLE Orlando ASSURANCE TECHNOLOGY Melbourne Carlisle PACIFIC SIERRA RESEAN Edwards AFB Los Angeles	Virginia Virginia PORATION Alabama Florida CORP Florida Mass RCH CORP California California	-	7,144 1,053 10,134 * 7,073 3,061 10,053 * 899 9,154 10,030 * 490
152 S 154 S 155 M 156 E 157 E	INTERMETRICS INC Huntington Bea Betheeda Cambridge Oceanport Melville Dayton Warminster SPACE APPLICATIONS CO Santa Ana Santa Clara SPARTON CORPORATION FORT Wayne Jackson MCDONNELL DOUGLAS AST Titusville St Louis	California Maryland Mass New Jersey New Jersey New York Ohio Penn ORPORATION California California Indiana Michigan	11,906 * 1,666 1,093 568 3,400 33 738 4,408 S 11,893 * 1,570 10,323 11,836 * 6,694	172	Chantilly COLEMAN RESEARCH CORN HUNTSVILLE Orlando ASSURANCE TECHNOLOGY Melbourne Carlisle PACIFIC SIERRA RESEAU Edwards AFB Los Angeles	Virginia PORATION Alabama Florida CORP Florida Mass RCH CORP California California	-	1,053 10,134 * 7,073 3,061 10,053 * 899 9,154 10,030 * 490
152 S 154 S 155 M 156 E 157 E	Huntington Bea Betheeda Cambridge Oceanport Melville Dayton Warminster SPACE APPLICATIONS CO Santa Ana Santa Clara SPARTON CORPORATION FORT Wayne Jackson MCDONNELL DOUGLAS AS: Titusville St Louis	California Maryland Mass New Jersey New York Ohio Penn ORPORATION California California Indiana Michigan	11,906 * 1,666 1,093 568 3,400 33 738 4,408 S 11,893 * 1,570 10,323 11,836 * 6,694	172	COLEMAN RESEARCH CORN Huntsville Orlando ASSURANCE TECHNOLOGY Melbourne Carlisle PACIFIC SIERRA RESEAN Edwards AFB Los Angeles	PORATION Alabama Florida CORP Florida Mass RCH CORP California California	-	10,134 * 7,073 3,061 10,053 * 899 9,154 10,030 * 490
152 S 154 S 155 M 156 E 157 E	Huntington Bea Betheeda Cambridge Oceanport Melville Dayton Warminster SPACE APPLICATIONS CO Santa Ana Santa Clara SPARTON CORPORATION FORT Wayne Jackson MCDONNELL DOUGLAS AS: Titusville St Louis	Maryland Mass New Jersey New York Ohio Penn ORPORATION California California Indiana Michigan	1,666 1,993 568 3,400 33 738 4,408 S 11,893 * 1,570 10,323 11,836 * 6,694	172	Huntsville Orlando ASSURANCE TECHNOLOGY Melbourne Carlisle PACIFIC SIERRA RESEAU Edwards AFB Los Angeles	Alabama Florida CORP Florida Mass RCH CORP California California	-	7,073 3,061 10,053 * 899 9,154 10,030 * 490
154 S 155 M 156 E 157 E	Bethesda Cambridge Oceanport Melville Dayton Warminster SPACE APPLICATIONS CO Santa Ana Santa Clara SPARTON CORPORATION FORT Wayne Jackson MCDONNELL DOUGLAS AST Titusville St Louis	Maryland Mass New Jersey New York Ohio Penn ORPORATION California California Indiana Michigan	1,093 568 3,400 33 738 4,408 S 11,693 * 1,570 10,323 11,836 * 6,694		Orlando ASSURANCE TECHNOLOGY Melbourne Carlisle PACIFIC SIERRA RESEAL Edwards AFB Los Angeles	Florida CORP Florida Mass RCH CORP California California	s	3,061 10,053 * 899 9,154 10,030 * 490
154 S 155 M 156 E 157 E	Cambridge Oceanport Melville Dayton Warminster SPACE APPLICATIONS CO Santa Ana Santa Clara SPARTON CORPORATION FOR Wayne Jackson MCDONNELL DOUGLAS AST Titusville St Louis	Mass New Jersey New York Ohio Penn ORPORATION California California Indiana Michigan	568 3,400 33 738 4,408 S 11,893 * 1,570 10,323 11,836 * 6,694		ASSURANCE TECHNOLOGY Melbourne Carlisle PACIFIC SIERRA RESEAL Edwards AFB Los Angeles	CORP Florida Mass RCH CORP California California	s	3,061 10,053 * 899 9,154 10,030 * 490
154 S 155 M 156 E 157 E	Oceanport Melville Dayton Warminster SPACE APPLICATIONS CO Santa Ana Santa Clara SPARTON CORPORATION Fort Wayne Jackson MCDONNELL DOUGLAS AS: Titusville St Louis	New Jersey New York Ohio Penn ORPORATION California California Indiana Michigan	568 3,400 33 738 4,408 S 11,893 * 1,570 10,323 11,836 * 6,694		Melbourne Carlisle PACIFIC SIERRA RESEAU Edwards AFB Los Angeles	Florida Mass RCH CORP California California	S	899 9,154 10,030 * 490
154 S 155 M 156 E 157 E	Melville Dayton Warminster SPACE APPLICATIONS CO Santa Ana Santa Clara SPARTON CORPORATION FORT Wayne Jackson MCDONNELL DOUGLAS AS: Titusville St Louis	New York Ohio Penn ORPORATION California California Indiana Michigan	33 738 4,408 S 11,893 * 1,570 10,323 11,836 * 6,694		Melbourne Carlisle PACIFIC SIERRA RESEAU Edwards AFB Los Angeles	Florida Mass RCH CORP California California	S	899 9,154 10,030 * 490
154 S 155 M 156 E 157 E	Dayton Warminster SPACE APPLICATIONS CO Santa Ana Santa Clara SPARTON CORPORATION FORT Wayne Jackson MCDONNELL DOUGLAS AST Titusville St Louis	Ohio Penn ORPORATION California California Indiana Michigan	738 4,408 S 11,693 * 1,570 10,323 11,836 * 6,694	173	Carlisle PACIFIC SIERRA RESEAU Edwards AFB Los Angeles	Mass RCH CORP California California		9,154 10,030 * 490
154 S 155 M 156 E 157 E	Warminster SPACE APPLICATIONS CONTROL SANTA ANA SANTA CLARA SPARTON CORPORATION FOR Wayne Jackson MCDONNELL DOUGLAS ASTITUSVILLE ST LOUIS	Penn ORPORATION California California Indiana Michigan	4,408 S 11,893 * 1,570 10,323 11,836 * 6,694	173	PACIFIC SIERRA RESEAL Edwards AFB Los Angeles	RCH CORP California California		10,030 * 490
154 S 155 M 156 E 157 E	SPACE APPLICATIONS CO Santa Ana Santa Clara SPARTON CORPORATION FORT Wayne Jackson MCDONNELL DOUGLAS AS: Titusville St Louis	ORPORATION California California Indiana Michigan	S 11,893 * 1,570 10,323 11,836 * 6,694	173	Edwards AFB Los Angeles	California California		490
154 S 155 M 156 E 157 E	Santa Ana Santa Clara SPARTON CORPORATION FOR Wayne Jackson MCDONNELL DOUGLAS AS: Titusville St Louis	California California Indiana Michigan	S 11,893 * 1,570 10,323 11,836 * 6,694	173	Edwards AFB Los Angeles	California California		490
154 S 155 M 156 E 157 E	Santa Ana Santa Clara SPARTON CORPORATION FOR Wayne Jackson MCDONNELL DOUGLAS AS: Titusville St Louis	California California Indiana Michigan	1,570 10,323 11,836 * 6,694		Los Angeles	California		
155 E	Santa Clara SPARTON CORPORATION Fort Wayne Jackson MCDONNELL DOUGLAS AS: Titusville St Louis	California Indiana Michigan	10,323 11,836 * 6,694					5,869
155 E	SPARTON CORPORATION FORT Wayne Jackson MCDONNELL DOUGLAS AS: Titusville St Louis	Indiana Michigan	11,836 * 6,694	ł	Santa Monica			
155 E	Fort Wayne Jackson MCDONNELL DOUGLAS AS Titusville St Louis	Michigan	6,694	1		California		1,655
155 E	Fort Wayne Jackson MCDONNELL DOUGLAS AS Titusville St Louis	Michigan	6,694		White Sands Ms	New Mexico		854
156 E	Jackson MCDONNELL DOUGLAS AS: Titusville St Louis	Michigan		ı	Montague	N Carolina		50
156 E	MCDONNELL DOUGLAS AS Titusville St Louis	•		ļ	Arlington	Virginia		1,112
156 E	Titusville St Louis	TDOMASITICS	5,142	1			_	
156 E	Titusville St Louis	TDOMAITTI CC		175	GEO CENTERS INC		S	10,002 *
157 E	St Louis		11,691 *	!	Washington	D.C.		3,378
157 E		Florida	9,091	1	Edgewood Arsen	Maryland		733
157 E	EARTH TECHNOLOGY COR	Missouri	2,600	- 1	Natick Researc	Mass		259
157 E	EARTH TECHNOLOGY COR				Newton	Mass		5,161
			S 11,644 *	- 1	Watertown	Mass		236
	Long Beach	California	11,644	j	Dover	New Jersey		235
	EGG THEEDMAN CONT.	00	C 11 540 #	1	DACAT COMPANITOATTONO	INC		10 000 #
158 H	ECC INTERNATIONAL CO		S 11,510 *	176	RACAL COMMUNICATIONS			10,000 *
158 H	Orlando	Florida	11,142	1	Rockville	Maryland		10,000
158 H	Vayne	Penn	368	177	BELL HELICOPTER TEXT	OON THE		9,863 *
190 8	HAZELTINE CORPORATION	u	11,417 *	1 ""	Fort Worth	Texas		
		n Maes		1	roit woith	TEVOR		9,863
	Braintree Greenlawn	nass New York	8,278 2,704	179	RESEARCH & DEV LABORA	TORIFG	s	9,827 *
	Greenlawn Huntington		2,794 345	1,,,		California	0	9,662
	Huntington	New York	345	1	Culver City	California		165
159 t	MARTIN MARIETTA WEST	MEMOR TO	11,405 *	1	Los Angeles	cettioturg		703
133 [Orlando	Florida	11,405	180	SUNDSTRAND CORPORATIO	w		9,823 *
	OI TOIMU	I TOLIUG	41,700	1 ***	San Diego	California		2,074
161 A	ARINC RESEARCH CORPO	RATION	11,368 *		Rockford	Illinois		7,749
101 1	San Diego	California	3,235	1				.,
	Annapolis	Maryland	8,133	181	COMARCO INC			9,803 *
	many vari	,	-, 200	1 202	Sierra Vista	Arizona		9,803
162 F	RAYTHEON SERVICE COM	PANY	11,311 *	1				•
	Bath	Maine	46-	184	C A E INDUSTRIES LTD			9,739 *
	Marlborough	Mass	9,878	1	Luke Air Force	Arizona		1,658
	White Sands Ms	New Mexico	478	J	Williams AFB	Arizona		1,583
	Wright Patters	Ohio	456	1	Silver Spring	Maryland		165
	Dahlgren	Virginia	545		Houston	Texas		6,333
	-	-	= -=	I				•
163 8	SRS TECHNOLOGIES		S 11,059 *	186	AM GENERAL CORPORATION			9,344 *
	Huntsville	Alabama	5,671		South Bend	Indiana		3,915
	Newport Beach	California	5,388		Livonia	Michigan		5,429
				1				<u> </u>
165 A	ADVANCED DECISION SY		S 10,915 *	187	SOFTECH INC			9,327 *
	Mountain View	California	10,865		San Diego	California		600
	Arlington	Virginia	50	1	Waltham	Mass		481
				1	Houston	Texas		1,300
166	GENERAL DYNAMICS WES		10,800 *		Alexandria	Virginia		6,946
	Ponona	California	10,800	1	BY AUDITUG GEOGRAPH	200004#55	_	0 100 #
162		PRIDON TO	40 000 #	188	PLANNING SYSTEMS INC		S	9,182 *
167 H	HUGHES AIRCRAFT & RA		10,800 *	1	Lowell	Mass		50
	Los Angeles	California	10,800	1	McLean	Virginia		9,132
150	OGHNOON TOUGH CORPOR	ATTON	10 405 #	1	ACD CONCODELINA			9,088 *
168 0	OSHKOSH TRUCK CORPORA		10,436 *	190	ASP CONSORTIUM	Californi-		
	0shkosh	Wisconsin	10,436	1	Ontario	California		9,088
169 E	BDM MANAGEMENT SERVI	res ro	10,387 #	191	GRUMMAN DATA SYSTEMS	CUBB		9,070 *
103	Kirtland AFB	New Mexico		1 121	Woodbury	New York		9,070 ~
	McLean	Virginia	10,288 99		ecoding y	Hee TOTA		3,010

^{- =} Minus Amount (Cancellations Exceed New Awards) S = Small Business

Table 2. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Business Firms: FY 1989

194 LITTI 195 TACTI 196 CHRYS 197 DRAVO 200 FOSTI 203 EAGLI 204 VITRO 205 SYSTI 208 S SYSTI 208 LOCUS 210 LORAN 211 DEFEI 212 CINC	TERN INSTRUMENT COVERTURE Ventura TLE ARTHUR D INC Cambridge TICAL TRUCK CORPOR Livonia VSLER TECHNOLOGIES Eglin Air Forc Dayton Richardson Waco Arlington VO CORPORATION Pittsburgh TER MILLER INC Boston Waltham	California Mass RATION Michigan	S 9,037 * 9,037 * 9,037 * 8,966 * 8,966 * 8,957 * 8,957 * 1,009 1,600 1,290	215 216 218	DYNETICS INC Huntsville Shalimar DYNCORP APPLIED TECHN Yuma Proving G Uright Patters MANTECH INTERNATIONAL Sierra Vista	Arizona Ohio	S 7,431 6,116 1,315 7,394 6,968 426	
195 TACT: 196 CHRYS 197 DRAVO 200 FOST: 203 EAGL! 204 VITRO 205 SYST: 208 S SYS 209 LOCUS 210 LORAN 211 DEFEI 212 CINC:	CLE ARTHUR D INC Cambridge CICAL TRUCK CORPOR Livonia CSLER TECHNOLOGIES Eglin Air Forc Dayton Richardson Waco Arlington COCRPORATION Pittsburgh CER MILLER INC Boston	Mass RATION Michigan S Florida Ohio Texas Texas	9,037 8,966 * 8,957 * 8,957 * 8,870 * 1,009 1,600 1,290		Shalimar DYNCORP APPLIED TECHN YUMA Proving G Wright Patters MANTECH INTERNATIONAL	Florida OLOGY Arizona Ohio	1,315 7,394 6,968	*
195 TACT: 196 CHRYS 197 DRAVO 200 FOST: 203 EAGL! 204 VITRO 205 SYST: 208 S SYST: 209 LOCUS 210 LORA: 211 DEFE: 212 CINC:	Cambridge CICAL TRUCK CORPOR Livonia CSLER TECHNOLOGIES Eglin Air Forc Dayton Richardson Waco Arlington CORPORATION Pittsburgh CER MILLER INC Boston	RATION Michigan S Florida Ohio Texas Texas	8,966 8,957 * 8,957 8,870 * 1,009 1,600 1,290		Yuma Proving G Wright Patters MANTECH INTERNATIONAL	Arizona Ohio	7,394 6,968	*
196 CHRYS 197 DRAVO 200 FOSTI 203 EAGLI 204 VITRO 205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAI 211 DEFEI 212 CINC	CICAL TRUCK CORPOR Livonia (SLER TECHNOLOGIES Eglin Air Forc Dayton Richardson Waco Arlington (O CORPORATION Pittsburgh CER MILLER INC Boston	RATION Michigan S Florida Ohio Texas Texas	8,957 * 8,957 * 8,870 * 1,009 1,600 1,290		Yuma Proving G Wright Patters MANTECH INTERNATIONAL	Arizona Ohio	6,968	*
196 CHRYS 197 DRAVO 200 FOSTI 203 EAGLI 204 VITRO 205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAI 211 DEFEI 212 CINC	Livonia (SLER TECHNOLOGIES Eglin Air Forc Dayton Richardson Waco Arlington (O CORPORATION Pittsburgh CER MILLER INC Boston	Michigan S Florida Ohio Texas Texas	8,957 8,870 * 1,009 1,600 1,290	218	Wright Patters MANTECH INTERNATIONAL	Ohio		
196 CHRYS 197 DRAVO 200 FOSTI 203 EAGLI 204 VITRO 205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAI 211 DEFEI 212 CINC	Livonia (SLER TECHNOLOGIES Eglin Air Forc Dayton Richardson Waco Arlington (O CORPORATION Pittsburgh CER MILLER INC Boston	Michigan S Florida Ohio Texas Texas	8,957 8,870 * 1,009 1,600 1,290	218	MANTECH INTERNATIONAL		,,,,	
197 DRAVO 200 FOSTI 203 EAGLI 204 VITRO 205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAN 211 DEFEI 212 CINC	Eglin Air Forc Dayton Richardson Waco Arlington /O CORPORATION Pittsburgh CER MILLER INC Boston	S Florida Ohio Texas Texas	8,870 * 1,009 1,600 1,290	218		CORP		
197 DRAVO 200 FOSTI 203 EAGLI 204 VITRO 205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAN 211 DEFEI 212 CINC	Eglin Air Forc Dayton Richardson Waco Arlington /O CORPORATION Pittsburgh CER MILLER INC Boston	Florida Ohio Texas Texas	1,009 1,600 1,290		Cipres Vista		7,385	*
200 FOSTI 203 EAGLI 204 VITRO 205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAN 211 DEFEI 212 CINC	Dayton Richardson Wacco Arlington //O CORPORATION Pittsburgh TER MILLER INC Boston	Ohio Texas Texas	1,600 1,290			Arizona	1,323	
200 FOSTI 203 EAGLI 204 VITRO 205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAN 211 DEFEI 212 CINC	Richardson Waco Arlington O CORPORATION Pitteburgh CER MILLER INC Boston	Texas Texas	1,290	[Los Alamos Wright Patters	New Mexico Ohio	248 5,085	
200 FOSTI 203 EAGLI 204 VITRO 205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAI 211 DEFEI 212 CINC	Waco Arlington O CORPORATION Pittsburgh TER MILLER INC Boston	Texas		1	Warminster	Penn	130	
200 FOSTI 203 EAGLI 204 VITRO 205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAN 211 DEFEI 212 CINC	O CORPORATION Pittsburgh TER MILLER INC Boston	Virginia	864	Į.	Alexandria	Virginia	320	
200 FOSTI 203 EAGLI 204 VITRO 205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAI 211 DEFEI 212 CINC	Pittsburgh TER MILLER INC Boston		4,107	ſ	Arlington	Virginia	279	
203 EAGLI 204 VITRO 205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAN 211 DEFER	TER MILLER INC Boston	Penn	8,783 * 8,783	219	LASER SYSTEMS & RSCH Escondido	CORP California	S 7,347 7,347	*
203 EAGLI 204 VITRO 205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAN 211 DEFER	Boston		·				·	_
204 VITRO 205 SYSTI 208 S SYS 209 LOCUS 210 LORAS 211 DEFEI 212 CINC		Maga	S 8,598 *	220	ADVANCED TECHNOLOGY I		7,196	*
204 VITRO 205 SYSTI 208 S SYS 209 LOCUS 210 LORAS 211 DEFEI 212 CINC		Mass Mass	350 8,248		El Segundo Orlando	California Florida	534 50	
204 VITRO 205 SYSTI 208 S SYS 209 LOCUS 210 LORAS 211 DEFEI 212 CINC		. 2000	5,240		Albuquerque	New Mexico	50	
205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAN 211 DEFER	LE TECHNOLOGY INC		S 8,361 *	[Naval Underwat	Rhode Isld	40	
205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAN 211 DEFEI 212 CINC	Palo Alto	California	90 500		Arlington	Virginia Virginia	154	
205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAN 211 DEFER	Orlando Vero Beach	Florida Florida	500 226	1	Dahlgren Reston	Virginia Virginia	2,343 4,025	
205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAN 211 DEFEI 212 CINC	Winter Park	Florida	554	ļ			•	
205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAN 211 DEFEI 212 CINC	Eatontown	New Jersey	559	222	PACER SYSTEMS INC		7,119	*
205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAN 211 DEFEI 212 CINC	Arlington	Virginia	1,740		Panama City	Florida	1,813	
205 SYSTI 208 S SYSTI 209 LOCUS 210 LORAN 211 DEFEI 212 CINC	McLean	Virginia	4,692		Billerica Horsham	Mass Penn	797 4,5 09	
208 S SY: 209 LOCUS 210 LORAS 211 DEFEI 212 CINC	RONICS INC		S 8,350 *	İ				
208 S SY: 209 LOCUS 210 LORAS 211 DEFEI 212 CINC	Eatontown	New Jersey	8,350	225	VSE CORPORATION		6,995	*
208 S SY: 209 LOCUS 210 LORAS 211 DEFEI 212 CINC	POW DUNIAMING THE		c 0.000#		Valparaiso	Florida	6, 995	
209 LOCUS 210 LORAS 211 DEFEI 212 CINC	TEM DYNAMICS INC Huntsville	Alabama	S 8,302 * 1,243	226	PACCAR INC		6,957	*
209 LOCUS 210 LORAS 211 DEFEI 212 CINC	Gainesville	Florida	7,059	***	Bellevue	Washington	1,710	
209 LOCUS 210 LORAS 211 DEFEI 212 CINC			-	ļ	Kirkland	Washington	5,247	
210 LORAL 211 DEFEI 212 CINC	STEMS CORPORATION		S 7,914 *			SMC THE		
210 LORAL 211 DEFEI 212 CINC	Inglewood Los Angeles Ai	California California	2,075 3,303	227	STERLING FEDERAL SYST Palo Alto	EMS INC California	6,882 38	*
210 LORAL 211 DEFEI 212 CINC	Vipa vudetes vi	New Mexico	2,536	1	Bellevue	Nebraska	6,844	
210 LORAL 211 DEFEI 212 CINC	• •		ŕ	200		a ppnace	•	
211 DEFE	JS INC State College	Penn	7,815 * 5,2 4 7	230	NEUPORT NEWS SHPBLDIN Charlottesvill		6,756 593	*
211 DEFE	Alexandria	renn Virginia	1,710	ł	Newport News	Virginia Virginia	6,163	
211 DEFE	Arlington	Virginia	858	ļ	-		•	_
211 DEFE		T.7240		231	SIPPICAN INC	Mana	6,676	*
212 CINC:	AL ELECTRONIC SYST New York	TEMS New York	7,667 * 7,667	ĺ	Hull Marion	Mass Mass	100 6,576	
212 CINC:								
	ENSE SYSTEMS INC	utuat t	S 7,639 *	232	BABCOCK & WILCOX COMP		6,656	*
	McLean	Virginia	7,639	ŀ	New Orleans Lynchburg	Louisiana Virginia	6,300 356	
	CINNATI ELECTRONIC	CS CORP	7,619 *	i	mainting &	· ve STIITG	330	
213 OUFS	Cincinnati	Ohio	7,619	233	APPLIED RESEARCH INC		S 6,605	*
2 1 3 (A) FS	Y DECEMBOU CODECE	DATE ON	7 504 \$	j	Huntsville	Alabama	6,605	
ero doco.	T RESEARCH CORPOR Dayton	RATION Ohio	7,584 * 289	234	AEROMET INC		S 6,507	*
	Falls Church	Virginia	4,150	20'	Tulsa	Oklahoma	6,777	
	McLean	Virginia	3,145	- 1	Yona	Marshall I	270-	
214 SONA	ALYSTS INC		s 7,471 *	235	SYSTEMS & SIMULATIONS	INC	S 6,504	*
DOMM!		Conn	951	ا "	Tampa	Florida	6,504	
	New London	Conn	6,235		•		•	_
	Waterford	Rhode Isld	70	236	BRUNSWICK CORPORATION		6,495	*
	Waterford Naval Underwat	Rhode Isld Virginia	180 35		Costa Mesa Clearwater	California Florida	2,145 965	
	Waterford Naval Underwat Newport	ATTRICE	39		De Land	Florida	1,632	
	Waterford Naval Underwat				Marion	Virginia	1,753	

^{- =} Minus Amount (Cancellations Exceed New Awards) S = Small Business

Table 2. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Business Firms: FY 1989

lank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
237	STANFORD TELECOMMUNICATIONS	S 6,453 *	260	GENERAL INSTRUMENT CORP DEL	5,685 *
	Santa Clara California Reston Virginia	6,073 380		Belmont California Hicksville New York	
238	THINKING MACHINES CORPORATION	S 6,422 *	261	PARSONS RALPH M COMPANY THE	5,664 *
238	Chevy Chase Maryland Cambridge Mass	192 6,230	201	Pasadena California	5,664
	COMOLITAGE HASS	0,230	263	SYSTEMS RFS APPLICATIONS CORP	5,584 *
239	ANALYTYX ELECTRONIC SYSTEMS Hudson N.H.	6,280 * 6,280		El Segundo California Arlington Virginia	1,957 3,627
241	UNIVERSAL TECHNOLOGY CORP Dayton Ohio	S 6,180 * 6,180	264	DECISION SCIENCE APPLICATIONS Arlington Virginia	S 5,564 * 5,564
242	·	•	255		·
242	SYSTEMS PLANNING & ANALYSIS Arlington Virginia	S 6,141 * 250	266	SYSTEM DEVELOPMENT CORPORATION Huntsville Alabama	5,531 * 905
	Falls Church Virginia	5,891	İ	Sunnyvale California	936
		•	1	Eatontown New Jersey	2,127
243	PHYSICAL RESEARCH INC	S 6,129 *	l l	Warminster Penn	1,511
	Huntsville Alabama Torrance California	´241 5,888	1.	Fredericksburg Virginia	52
244	HODITONG TECHNOLOGY THE	C 6 00 #	267	SYNETICS CORPORATION	S 5,521 *
244	HORIZONS TECHNOLOGY INC San Diego California	5 6,081 * 6,081		Hopkinton Mass Wakefield Mass	56 5,465
245	UNION CORPORATION Scranton Penn	6,037 * 6,037	269	BECHTEL NATIONAL INC San Francisco California	5,490 * 5,490
246	SPIRE CORPORATION	s 6,008 *	270	DYNCORP	5,439 *
240	Bedford Mass	6,008	1 2/0	White Sands Ms New Mexico	5,439 ° 5,288
247	ORBITAL SCIENCES CORPORATION	s 6,000 *	J	Fort Worth Texas	151
271	Fairfax Virginia	6,000	272	WALLACE & CO	s 5,335 *
		-,		Cary N Carolina	5,263
248 -	HILTON SYSTEMS INC	S 5,941 *	ſ	Fairborn Ohio	72
	Hunteville Alabama	4,965	l l		
	Tampa Florida	692	273	MAR INCORPORATED	s 5,317 *
	Mount Arlingto New Jersey	284		Panama City Florida Rockville Maryland	2,648 2,669
249	ANALYSIS & COMPUTER SYSTEMS	s 5,921 *	ł	ion jauna	•
	Bedford Mass	5,921	274	EBASCO SERVICES INCORPORATED New York New York	5,300 * 5,300
250	SEMCOR INC	S 5,843 *			•
	Huntsville Alabama	49	275	DOW CHEMICAL COMPANY THE	5,297 *
	Mount Laurel New Jersey Warminster Penn	3,782 2,012		Midland Michigan Saginau Michigan	2,063 3,234
252	ORINCON CORPORATION	S 5,825 *	277	XONTECH INC	S 5,254 *
-	Placentia California San Diego California	289 5,536		Los Angeles California	5,254
	•	·	278	OLIN CORPORATION	5,234 *
253	AUTOMATED SCIENCES GROUP INC	s 5,800 *	ŀ	Stanford Conn	1,532
	Huntsville Alabama Silver Spring Maryland Dablaren Virginia	5,470 296		Saint Petersbu Florida East Alton Illinois	275 3,427
	Dahlgren Virginia	34	279	PLESSEY DYNAMICS CORP	5,199 *
255	HUGHES TRAINING SYS INC Arlington Texas	5,774 * 5,774	[,,	Wayne New Jersey	5,199
	_	·	280	RESEARCH ANALYSIS & MAINT	S 5,148 *
256	INTEGRATED SYSTEMS ANALYSTS	S 5,761 *	ı	El Paso Texas	5,148
	Chula Vista California	1,628		HATTAGE OF TO THE	
	San Diego California	1,067	282	WALLACE T H INC	S 5,090 *
	New London Conn Arlington Virginia	115 2,851	l l	Indian Harbour Florida Melbourne Florida	2,612 77 4
	Pleasant Gap Virginia	100	ĺ	Patrick AFB Florida	57
258	INNOVATIVE INFORMATION OVE	g 5 507 #	İ	Springfield Virginia	1,647
€20	INNOVATIVE INFORMATION SYS Los Angeles California	S 5,697 * 5,697	283	MCDONNELL DOUGLAS INCO INC	5,071 #
	and might be controlled	3,031	1 -55	Cheyenne Mtn C Colorado	3,557
259	STERIMATICS CORPORATION	5,688 *	ľ	Tampa Florida	785
	Bedford Mass	5,688		Chesapeake Virginia	729

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Table 2. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Business Firms: FY 1989

Rank	Name of Contract Location of Wo		Thousands of Dollars	Rank	Name of Cont Location of			ousands Dollars
284	BERKELEY RESEARCH ASSOC Berkeley Co	IATES alifornia	S 5,029 * 2,650	311	CAS INC Huntsville	Alabama	s	4,306 * 4,306
	Fairfax V	irginia irginia	80 2,299	312	ELECTRONIC DECISIONS		s	4,268 *
288	PHYSICAL SCIENCES INC		s 4,909 *		Urbana	Illinois		4,268
	The state of the s	ass	4,909	313	LOS ALAMOS TECHNICAL LOS Alamos	ASSOC INC New Mexico	s	4,248 * 4,248
289	ELECTROMAGNETIC LAUNCH I Hudson Ma	RES ass	4,903 * 4,903	315	FIBERTEK INC		s	4,170 *
200				""	Herndon	Virginia	•	4,170
290	CALIFORNIA RES & TECHNO! Los Angeles California	LUGY alifornia	4,888 * 4,745	316	CTA INCORPORATED		s	4,159 *
		ew Jersey	143	1 310	Ridgecrest	California	5	3,040
291	VECTOR RESEARCH COMPANY	TNC	s 4,789 *	1	Englewood Lanham	Colorado Maryland		522 303
C 3 I		aryland	4,789		Dayton	Ohio		294
292	ROHM & HAAS COMPANY		4,774 *	317	LITTON INDUSTRIES IN			4,143 *
	Philadelphia Pe	enn	4,774		Tempe	Arizona		105
293	ATLANTIC AEROSPACE ELECT	TRONTES	S 4,757 *	1	Los Angeles Lexington	California Mass		100 3,938
233		aryland	266		PENTIREOU	.1000		3, 330
		ass	4,491	318	APPLIED MEASUREMENT		S	4,124 *
294	MAC AULAY BROWN INC		s 4,724 *		New London Waterford	Conn Conn		1,223 285
234		lorida	184	1	Waterford Fort Lauderdal	Conn Florida		1,187
	Dayton 01	hio	3,640		Hollywood	Florida		628
	Wright Patters O	hio	900		Homestead AFB Middletown	Florida Rhode Isld		646 155
296	SIMULATION TECHNOLOGIES		S 4,709 *	l				
		labama	1,150	319	APPLIED TECHNOLOGY AS		S	4,083 *
	•	hio	3,559		Orlando Albuquerque	Florida New Mexico		50 4,033
297	UNITED INTERNATIONAL ENG		S 4,656 *	320	INTERCENCE CODE		s	4,042 *
		labama ew Mexico	500 4,156	320	INTRASPACE CORP North Salt Lak	Utah	o	4,042 * 719
	• •		•		Salt Lake City	Utah		3,323
299	TETRA TECH INC San Bernardino Ca	alifornia	S 4,620 *	321	ADVANCED TECHNOLOGY	DECEADOR	s	4,018 *
	son benioning (PITIOLITE	4,620	321	Laurel	Maryland	٥	4,018
301	RMS TECHNOLOGIES INCORPO		s 4,593 *			•	_	
		288	323 4 370	322	KETRON INC	Manus and	s	3,901 *
	Trevose Pe	enn	4,270	ĺ	Towson Malvern	Maryland Penn		893 2,868
302	KAMAN AEROSPACE CORPORAT	TION	4,546 *		Philadelphia	Penn		100
	Bloomfield Co	onn	4,546		Warminster	Penn		40
304	QUESTECH INC	•	4,501 *	323	I S T INC	11-1-1	s	3,869 *
		.C. hio	119 1,077	ĺ	Pullman	Washington		3,869
		irginia	1,146	324	PHOTON RESEARCH ASSOC	CIATES	s	3,845 *
	McLean V	irginia	1,963		Placentia	California		1,383
	Vienna V	irginia	196		San Diego Cambridge	California Mass		2,402 60
305	NATION INC		S 4,471 *	1	•			•
	Oceanport Ne	ew Jersey	3,249	325	ANALYTICS INCORPORATI			3,812 *
	Shrewsbury No	ew Jersey	1,222	ļ	Edgewood Tinton Falls	Maryland New Jersey		79 267
307	ARETE ASSOCIATES		S 4,440 *	1	Dayton	Ohio		300
		alifornia	3,940		Willow Grove	Penn		2,322
		irginia	[*] 500	[Fairfax	Virginia		179
308	ANDRULIS RESEARCH CORP		s 4,421 *		Manassas	Virginia		665
300		aryland	2,415	328	APPLIED RESEARCH ASS	OC INC	S	3,795 #
		tah	2,006	1	Albuquerque	New Mexico	_	2,647
309	I A P RESEARCH INC		S 4.408 *		Raleigh	N Carolina		1,148
JV 3		hio	S 4,408 * 4,408	329	COMPUTER RESOURCE ENG	arg assoc		3,756 *
	,		٠, ١٠٠	""	Columbia	Maryland		348
					Chantilly	Virginia		650
					Warrenton	Virginia		1,587
				1		GERMANY, F		1,171

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Table 2. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Business Firms: FY 1989

Rank	Name of Contrac Location of W		Thous of Dol		Rank	Name of Contr Location of			isands ollars
330	SOUTHERN RESEARCH TECH Birmingham	NOLOGIES Alabama	S	3,733 * 3,733	358	WYLE LABORATORIES El Segundo	California		3,314 * 596
331	SYSTEMS & ELECTRONICS Rolling Meadow	INC Illinois		3,727 * 3,727		Los Angeles Hampton	California Virginia		347 2,371
	MOTITING MEASURE	11111010		•	359	SCIENCE RESEARCH LABO		S	3,303 *
333	APTEK INC Colorado Sprin	Colorado		3,700 * 3,700		Oakley Somerville	California Mass		50 3,253
334	STATISTICA INC Columbia	Maryland		3,680 * 3,680	360	METALWORKING TECHNOLO Johnstown	OGY INC Penn	S	3,302 * 3,302
335	ARMAMENT SYSTEMS INC Anaheim	California		3,666 * 1,743	361	DOSS AVIATION INC Shepherd	Техав	s	3,276 * 3,276
	Fort Walton Be Aberdeen	Florida Maryland		1,311 612	362	TOYON RESEARCH CORP		s	3,262 *
336	DU PONT E I DE NMOURS Wilmington	COMPANY Delaware		3,659 * 3,659		Goleta Santa Barbara	California California		2,537 725
222	ARIAN TIME MEMBERS AND			0 6ED #	364	ECONOMICS TECHNOLOGY		S	3,232 *
338		New Mexico New Mexico		3,653 * 2,812 841		Culver City Point Mugu Nav San Diego	California California California		2,075 650 507
340	TELECTMUNICATION SCIEN San Diego Dallas	CE ASSOC California Texas		3,648 * 3,281 367	365	MTS SYSTEMS CORPORATI Eden Prairie Minneapolis	ION Minnesota Minnesota		3,220 * 1,220 2,000
341	ENCORE COMPUTER CORPOR Marlborough	RATION Mass		3,617 * 3,617	366	AEROLIFT INC Tillamook Dallas	Oregon Texas	S	3,217 * 2,329 888
342	TG BAUER ASSOCIATES Falls Church	Virginia		3,593 * 3,593	367	I R T CORPORATION San Diego	California	s	3,215 * 3,215
343	NORDEN SYSTEMS INC			3,565 *		_			-
	Santa Ana Norwalk	California Conn		278 2,253	369	DYNAMICS RESEARCH COR San Diego	RPORATION California		3,214 * 37
	Gaithersburg Melville	Maryland New York		180- 1,214		Wilmington Newport	Mass Rhode Isld		2,612 565
346	N K F ENGINEERING INC San Diego	California	s	3,524 * 866	371	MANAGEMENT CONSULTING Burlington	a RES Mass	s	3,175 * 83
	Columbia Arlington	Maryland Virginia		50 635		Dayton Falls Church	Ohio Virginia		3,052 40
	Reston	Virginia		1,973	372	SCIENCE & TECHNOLOGY	CORP	s	3,137 *
347	OPTIMETRICS INC			3,518 *		Las Cruces	New Mexico	-	792
	Ann Arbor Fairborn	Michigan Ohio		2,745 662		Arlington Hampton	Virginia Virginia		63 2,282
	Hampton	Virginia		111	373	EASTMAN KODAK COMPANY	!		3,121 *
350	ODYSSEY RESEARCH ASSOC I thaca	CIATES New York	s	3,470 * 3,470		Rochester	New York		3,121
351	DBA SYSTEMS INC Melbourne	Florida	s	3,467 * 3,467	375	TINSLEY LABORATORIES Richmond	INC California	S	3,101 * 3,101
					376	LASER SYSTEMS LABORAT			3,095 *
352	MECHANICAL TECHNOLOGY Latham	INC New York		3,449 * 3,449		San Diego	California		3,095
353	CROSS SYSTEMS INC	Georgia		3,407 * 3,407	377	WESTON ROY F INC West Chester	Penn	_	3,090 * 3,090
354	C3CM TST ENGR Albuquarque	New Mexico		3,378 * 3,378	378	ENGINEERING & PROF SV Tinton Falls	CS New Jersey	S	3,084 * 3,084
355	FEMME COMP INC		s	3,373 *	379	KEYSTONE COMPUTER ASS Fort Washingto	Penn	S	3,067 * 2, 6 21
		Virginia		3,373		Warminster Portsmouth	Penn Rhode Isld		68 128
356	AUTOMATION RES SYSTEMS Alexandria	S LTD Virginia	S	3,366 * 3,366		Arlington	Virginia		50

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Table 2. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Business Firms: FY 1989

Rank	Name of Contra Location of W		Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
381	INTERSIL INC Research Trian	N Carolina	2,996 * 2,996	400	THERMO ELECTRON TECH CORP San Diego California	2,648 * 2,648
382	EAGLE PICHER INDUSTRI	California	2,995 * 1,223	401	PHYSICAL OPTICS CORPORATION Torrance California	S 2,631 * 2,631
	Colorado Sprin Leneкa Joplin	Kansas Missouri	497 227 1,134	402	NATIVE AMERICAN SERVICE ASSN Huntsville Alabama	S 2,629 * 2,629
	Miani	Oklahoma	86-	405	WARTAN ACCOUNTED THE	2,551 *
383	UILLIAMS INTERNATIONA	L CORP	2,984 *	405	VARIAN ASSOCIATES INC Marina del Ray California	2,551 -
	Walled Lake	Michigan	2,984		Palo Alto California	2,511
385	DAVID SARNOFF RESEARCH	H CENTER	2,942 *	Ì	Santa Clara California Beverly Mass	882 85
303	San Jose	California	1,273		Oceanport New Jersey	
	Princeton	New Jersey	1,669		Dallas Texas	769-
386	EMERSON ELECTRIC CO		2,903 *	406	WADDAN SYSTEMS	S 2,550 *
	St. Louis	Missouri	2,903		Los Angeles California	2,550
387	EVALUATION RESEARCH C	ORP	2,873 *	407	HUGHES ASSOCIATES INC	s 2,528 *
	Elliston-Lafay	Virginia	100	1	Washington D.C.	403
	Fairfax	Virginia	2,773		Wheaton-Glenmo Maryland	2,125
389	SYNDETIX INC White Sands Ms	New Mexico	S 2,844 * 2,844	408	SCOPE INCORPORATED Reston Virginia	2,519 * 2,519
390	GOULD INC		2,812 *	409	ORLANDO TECHNOLOGY INC	s 2,513 *
	Point Mugu PMT	California	1,740	- 1	Eglin Air Forc Florida	225
	Glen Burnie	Maryland	245 827	1	Longwood Florida Orlando Florida	55 46
	Cleveland	Ohio	821		Shalimar Florida	2,187
391	ELECTRONIC ASSOCIATES		s 2,791 *			•
	Redstone Arsen West Long Bran		1,163 1,628	410	SCIENTIFIC RESEARCH ASSOC INC Glastonbury Conn	s 2,512 * 2,512
392	L GARDE INC Newport Beach	California	s 2,775 * 2,775	411	INTEL CORPORATION Beaverton Oregon	2,500 * 2,500
393	E C CORPORATION OF OA	K RIDGE	S 2,736 *	412	WEIDLINGER ASSOCIATES INC	S 2,500 *
	Huntsville	Alabama	1,135	İ	Los Altos California	
	Fort Knox Knoxville Oak Ridge	Kentucky Tennessee Tennessee	1,436 120 45		Palo Alto California New York New York	530 1,897
	our mage	1CIUIGDEC	43	413	TRUAX ENGINEERING	S 2,479 *
394	LOGISTICS MANAGEMENT		S 2,735 *		Saratoga California	2,479
	China Lake NWC Annapolis	California Maryland	1,222 755	414	FABEL SYS CORP	S 2,473 *
	Warminster	Penn	758		Malabar Florida	2,473
395	ADVANCED RES & APPLIC	ATIONS	S 2,670 *	415	TITAN SYSTEMS INC	2,465 *
	Sunnyvale	California	2,670		San Diego California	1,649
396	CACI INC		2,667 *	1	GERMANY, F	816
330	Washington	D.C.	532	416	KNOWLEDGE SYSTEMS CONCEPTS	S 2,443 *
	Fort Bragg	N Carolina	294		Mountain View California	370
	San Antonio	Texas	685 655	ſ	Vichita Kansas Rome New York	175
	Arlington Fairfax	Virginia Virginia	501		Falls Church Virginia	1,607 291
397	EDO CORPORATION		2,660 *	418	KDI PRECISION PRODUCTS INC	2,405 #
JEI	Shelton	Conn	127	710	Circleville Ohio	2,405 " 2,405
	New York	New York	2,533	1,,,		·
398	KRUG INTERNATIONAL CO	RPORATION	2,657 *	419	LOCKHEED ENGRG & MGT SVCS CO Dugway Proving Utah	2,400 * 2,400
3	Dayton	Ohio	100			•
	San Antonio	Техав	2,557	420	EPOCH ENGINEERING INC Gaithersburg Maryland	S 2,399 * 2,399
399	CARTURIGHT ELECTRONIC		S 2,656 *	1	-	·
	Fullerton	California	2,656	422	AERODYNE RESEARCH INC Bedford Mass	S 2,384 * 60
				1	Billerica Mass	2,324

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Table 2. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Business Firms: FY 1989

428 429 430 431	INTERNATIONAL SOFTWAR: AUSTIN IRVINE SENSORS CORPOR Huntsville Costa Mesa Santa Ana CONTRAVES GOERZ CORPOR Boston Koppel Pittsburgh FRIED D L ASSOCIATES Placentia ENCORE CORPORATION Marlborough ELECTRODYNAMICS INC ROlling Meadow TEXTRON INC Wasepi Buffalo	Texas ATION Alabama California California RATION Mass Penn Penn	s s s	2,381 * 2,378 * 300 2,026 52 2,366 * 446 429 1,491 2,364 * 2,360 * 2,360 *	448 449 450 451 452 453	DEERE JOHN TECHNOLOGIES INTL Woodbridge New Jersey SYSTRAN CORP Dayton Ohio COMPRHENSIVE TECHNOLOGIES INTL Chantilly Virginia GEOMET INC Gaithersburg Maryland Germantown Maryland DATA DESIGN LABORATORIES Chantilly Virginia FRONTIER ENGINEERING INC	SSS	2,123 * 2,121 * 2,121 * 2,109 * 2,109 * 2,105 * 272 1,833 2,093 * 2,093 * 2,093 *
427 428 429 430	Huntsville Costa Mesa Santa Ana CONTRAVES GOERZ CORPO Boston Koppel Pittsburgh FRIED D L ASSOCIATES Placentia ENCORE CORPORATION Marlborough ELECTRODYNAMICS INC Rolling Meadow TEXTRON INC Wasepi	Alabama California California RATION Mass Penn Penn INC California	s	300 2,026 52 2,366 * 446 429 1,491 2,364 * 2,364 * 2,360 * 2,360 *	450 451 452	Dayton Ohio COMPRHENSIVE TECHNOLOGIES INTL Chantilly Virginia GEOMET INC Gaithersburg Maryland Germantoun Maryland DATA DESIGN LABORATORIES Chantilly Virginia	S	2,121 2,109 * 2,109 2,105 * 272 1,833 2,093 * 2,093 *
428 429 430 431	Santa Ana CONTRAVES GOERZ CORPOR BOSTON KOPPEL PITTSBUTTS PITTSBUTTS FRIED D L ASSOCIATES Placentia ENCORE CORPORATION Marlborough ELECTRODYNAMICS INC Rolling Meadow TEXTRON INC Wasepi	California RATION Mass Penn Penn INC California		52 2,366 * 446 429 1,491 2,364 * 2,360 * 2,360 *	451	Chantilly Virginia GEOMET INC Gaithersburg Maryland Germantown Maryland DATA DESIGN LABORATORIES Chantilly Virginia		2,109 2,105 * 272 1,833 2,093 * 2,093 *
428 429 430 431	Boston Koppel Pittsburgh FRIED D L ASSOCIATES Placentia ENCORE CORPORATION Marlborough ELECTRODYNAMICS INC Rolling Meadow TEXTRON INC Wasepi	Mass Penn Penn INC California Mass		446 429 1,491 2,364 * 2,364 * 2,360 * 2,360 *	452	Gaithersburg Maryland Germantoun Haryland DATA DESIGN LABORATORIES Chantilly Virginia	g	272 1,833 2,093 * 2,093 *
429 430 431	Koppel Pittsburgh FRIED D L ASSOCIATES Placentia ENCORE CORPORATION Marlborough ELECTRODYNAMICS INC Rolling Meadow TEXTRON INC Wasepi	Penn Penn INC California Mass		429 1,491 2,364 * 2,364 2,360 *	452	Gaithersburg Maryland Germantoun Haryland DATA DESIGN LABORATORIES Chantilly Virginia	ę	272 1,833 2,093 * 2,093 *
429 430 431	Pittsburgh FRIED D L ASSOCIATES Placentia ENCORE CORPORATION Marlborough ELECTRODYNAMICS INC Rolling Meadow TEXTRON INC Wasepi	Penn INC California Mass		1,491 2,364 * 2,364 2,360 * 2,360		Germantown Maryland DATA DESIGN LABORATORIES Chantilly Virginia	ę	2,093 * 2,093 * 2,093 *
429 430 431	Placentia ENCORE CORPORATION Marlborough ELECTRODYNAMICS INC Rolling Meadow TEXTRON INC Wasepi	California Mass		2,364 2,360 * 2,360		Chantilly Virginia	q	2,093 2,093 *
430 431	Marlborough ELECTRODYNAMICS INC Rolling Meadow TEXTRON INC Wasepi		s	2,360	453	FRONTIER ENGINEERING INC	e	
431	Rolling Meadow TEXTRON INC Wasepi	Illinois		"		Stillwater Oklahoma		2,093
	Wasepi			2,344 * 2,344	455	VISIDYNE INC Burlington Mass	s	2,071 * 2,071
	Wasepi			2,342 *	456	J W P INC	s	2,066 *
433	Ruffalo	Michigan		450		Long Beach California		1,119
433	Wheatfield	New York New York		1,810 82	1	Colorado Sprin Colorado		947
433	ALICO CA TETA	TOIR			457	B K DYNAMICS INC	S	2,064 *
	PHYSICAL DYNAMICS INC		S	2,337 *		San Diego California		93
	Placentia San Diogo	California		57 49	1	Washington D.C. Rockville Maryland		75 1 806
	San Diego Arlington	California Virginia		1,219	1	ROCKVIIIE NATYIANG		1,896
	Bellevue	Washington		1,012	458	SEMA INC	s	2,060 *
434	METRICA INC		s	2,324 *		Falls Church Virginia		2,060
	Bryan	Texas	-	2,324	459	ODETICS INC	S	2,056 *
435	JAMIESON SCIENCE & EN	GINEERING	s	2,318 *		Anaheim California		2,056
	Bethesda	Maryland		2,318	460	HYPRES INC Elmsford New York	S	2,052 * 2,052
437	HAMPSHIRE INSTRUMENTS		s	2,313 *	1.		_	
	Marlborough	Mass		2,313	461	TECHNICAL & MGT SVCS CORP Calverton Maryland	S	2,040 * 96
438	CENTURY COMPUTING INC		s	2,273 *		Suitland Maryland		331
	Laurel	Maryland		1,999	1	Oceanport New Jersey		1,268
	Wright Patters	Ohio		274		Dayton Ohio		345
439	B D SYSTEMS INC		s	2,265 *	463	HADRON INC	S	2,029 *
	Torrance	California		2,265		Vienna Virginia		2,029
440	ADVANCED TECHNOLOGY S Vienna	YSTEMS Virginia	s	2,235 * 2,235	464	SYGNETRON PROTECTION SYSTEMS Cape Canaveral Florida	s	2,025 * 2,025
442	MANDEX INC		s	2,219 *	465	REMINGTON ARMS COMPANY INC		2,005 *
	Yuma Proving G	Arizona		1,332 887		Ilion New York		2,005
	Springfield	Virginia			466	SYSTEMS & LOGISTICS CORP	S	2,005 *
443	C V D INCORPORATED Woburn	Mass		2,212 * 2,212	-	San Bernardino California Torrance California	_	1,692 313
444	LEADING SYSTEMS INC Irvine	California	s	2,200 * 2,200	467	KESTREL INSTITUTE Palo Alto California	s	1,997 * 1,997
445	INTERACTIVE TV COMPAN Arlington	Y Virginia		2,195 * 2,195	468	INTEGRAL SYSTEMS INC East Pines Maryland Lanham Maryland	s	1,990 * 54 1,936
446	EG&G INC			2,177 *	1	•		
	Salem Las Vegas	Mass Nevada		143 2,034	469	SUPERCONDUCTOR TECHNOLOGIES Goleta California	S	1, 982 * 1,526
	-			•	}	Santa Barbara California		456
447	CELCO TOOL & ENGINEER Summit	ING New Jersey		2,170 * 2,170				

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Table 2. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Business Firms: FY 1989

lank	Name of Contra Location of W		Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
471	E I C LABORATORY INC	Mass	S 1,960 * 1,960	495	TECHDYN SYSTEMS CORPORATION Springfield Virginia	S 1,827 * 1,827
472	TRACOR FLIGHT SYSTEMS Newport Beach	INC California	1,958 * 1,958	496	SATCON TECHNOLOGY CORPORATION Cambridge Mass	S 1,822 * 1,822
473	OPTRON SYSTEMS INC Bedford	Mass	S 1,949 * 1,713	497	A P A OPTICS INC Blaine Minnesota	S 1,819 * 1,819
	Newton Waltham	Mass Mass	161 75	498	RECON & OPTICAL INC Barrington Illinois	1,819 * 1,819
474	SCIENCE & ENGINEERING Denver Albuquerque	ASSOC Colorado New Mexico	S 1,941 * 75 1,817	499	SUMARIA SYSTEMS INC Wakefield Mass	S 1,805 * 1,805
	Cardenas	New Mexico	49	500	OCEAN DATA SYSTEMS INC	S 1,801 *
475	AHNTECH INC San Diego	California	s 1,939 * 1,939		Rockville Maryland	1,601
476	P E I ASSOCIATES INC Huntsville Cincinnati	Alabama Ohio	1,939 * 68 1,871		TOTAL	19,763,298
477	DECISION SCIENCE CONS Reston	ORTIUM Virginia	s 1,932 * 1,932			
479	GEODYNAMICS CORPORATION Santa Barbara	ON California	S 1,924 * 1,924			
480	TS INFOSYSTEMS INC Eglin Air Forc Lanham	Florida Maryland	s 1,923 * 208 1,715			
481	TECHNOLOGY DEVELOPMENT	T CORP Alabama	S 1,912 * 1,912			
482	T S C INC Santa Monica Salida New London	California Colorado Conn	1,906 * 1,637 61 208			
483	ALPHATECH INC Burlington	Mass	s 1,905 * 1,905			
485	SCIENCE & TECHNOLOGY Arlington	ASSOC Virginia	S 1,890 * 1,890			
486	MULTI ELECTRIC MFG INC	C Illinois	S 1,886 * 1,886			
487	TECOLOTE RESEARCH INC Santa Barbara Bedford Arlington	California Mass Virginia	S 1,881 * 1,379 150 352			
490	GENERAL APPLIED SCIENT	_	S 1,864 * 1,864			
491	R J O ENTERPRISES INC Lanham Bedford Dayton Falls Church	Maryland Mass Ohio Virginia	S 1,859 * 1,317 173 203 166			
492	PRESEARCH INCORPORATE Panama City Fairfax	D Florida Virginia	1,855 * 672 1,183			
494	LANKIDE CORP Newark	Delaware	s 1,830 * 1,830			

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Table 3. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Educational and Nonprofit Institutions: FY 1989

Rank	Name of Contra Location of V		Thousands of Dollars	Rank	Name of Contr Location of		Thousands of Dollars
16	MASSACHSTTS INST OF 1	CHNOLOGY	410,578 *	 			
	Boston	Mass	1,569	75	STANFORD LELAND JUNIO	R UNIV	32,192 *
	Cambridge	Mass	30,070		Stanford	California	32,047
	Lexington	Mass	378, 939		Princeton	New Jersey	145
17	MITRE CORPORATION		384,216 *	76	ANALYTIC SERVICES INC		32,078 *
• •	Bedford	Mass	381,144	'*	Colorado Sprin		678
	McLean	Virginia	3,072	1	Arlington	Virginia	31,257
	trreat	Alignita	3,072	1	Fort Belvoir	Virginia	143
19	JOHNS HOPKINS UNIVERS	ITY	327,647 *			_	
	Baltimore	Maryland	3,589	77	GEORGIA TECH RESEARCH	CORP	31,945 *
	Laurel	Maryland	324,058		Eglin Air Forc	Florida	180
21	AEROSPACE CORPORATION	•	201 420 #	1	Atlanta San Antonio	Georgia Texas	31,691 74
21		California	301,430 *		San Antonio	Texas	/4
	El Segundo	Callionna	301,430	78	UTAH STATE UNIVERSITY		31,705 *
43	I I T RESEARCH INSTIT	TITE	78,151 *	1 .	Logan	Utah	31,705
70	Sacramento	California	110		2080.	V 101.	01,.00
	Colorado Sprin		27	83	UNIVERSITY OF MINNESO	TA	30,255 *
	Chicago	Illinois	68,835		Duluth	Minnesota	453
	Chicago O'Hare	Illinois	356	1	Minneapolis	Minnesota	515
	Lanhan	Maryland	1,426	1	St. Paul	Minnesota	29,287
	Rochester	New York	27	ı			
	Rome	New York	225	85	UNIVERSITY OF SOUTHER		29,363 *
	Syracuse	New York	385	1	Los Angeles	California	29, 183
	Warmingter	Penn	50	- [San Diego	California	180
	Oak Ridge	Tennessee	6,710		partition to the second		na asa *
	INITIONAL OF ALCOHOL	m17 A	Fa P1= #	88	BATTELLE MEMORIAL INS		29,003 *
51	UNIVERSITY OF CALIFOR		56,507 *		Huntsville	Alabama	222
	Angels Camp	California	68	l l	Scottedale	Arizona	41 32
	Berkeley Davis	California	11,716 1,233		Los Angeles Menlo Park	California California	32 74
	Irvine	California California	2,911		Mountain View	California	25
	Livernore	California	2,911		San Diego	California	94
	Los Angeles	California	5,996		Santa Monica	California	32
	Oakland	California	340	1	Fort Collins	Colorado	101
	Placentia	California	7,381	l l	Woodbridge	Conn	75
	Riverside	California	343		Washington	D.C.	37
	San Diego	California	12,516		Gainesville	Florida	81
	San Francisco	California	1,955	1	Indialantic	Florida	76
	Santa Barbara	California	10,398		Orlando	Florida	47
	Santa Cruz	California	1,247		Тамра	Florida	53
	Torrance	California	168		Atlanta	Georgia	107
				{	Norcross	Georgia	112
53	DRAPER CHARLES STARK		54,986 *		Chicago	Illinois	123
	Boston	Mass	1,048	1	Park Forest	Illinois	26
	Cambridge	Mase	53, 938	1	Skokie	Illinois	32
84	DENDLOWITHANIA CONATO	III TUE	E2 050 #	l l	Lafayette	Indiana	77 52
54	PENNSYLVANIA STATE UN		53,950 *	1	Baton Rouge	Louisiana	57
	State College	Penn	53,950	1	Aberdeen Prov	Maryland Maryland	1,392 56
57	RAND CORPORATION		50,953 *	1	Elkton Fr ede rick	Maryland Maryland	62-
٠,	Los Angeles	California	24,874	i i	Gaithersburg	Maryland	44
	Santa Monica	California	26,079	1	Concord	Mass	32
			20,010	- }	Wilbraham	Mass	45
58	CARNEGIE MELLON UNIVE	RSITY	49,023 *	1	Detroit	Michigan	46
	Pitteburgh	Penn	49,023	ł	Houghton	Michigan	36
			,	ı	Midland	Michigan	32
63	SRI INTERNATIONAL		45,624 *	1	North Muskegon	Michigan	81
	Menlo Park	California	45,356	1	Minnetonka	Minnesota	126
	Melbourne	Florida	165	-	St Paul	Minnesota	26-
	Arlington	Virginia	103	ı	Las Vegas	Nevada	137
				1	Hollis	N.H.	54
65	INSTITUTE FOR DEF ANA		42,811 *	1	Nashua	N.H.	117
	Alexandria	Virginia	42,811	- 1	Englewood Clif	New Jersey	27
74	INTURDATED AS MAYA	WOTEN	22 252 #	· I	Millburn	New Jersey	39
74	UNIVERSITY OF TEXAS S		33,362 *	ı	Monmouth Junct	New Jersey	31 36
	Lincoln	Nebraska Tavas	75 440	1	Norwood	New Jersey	36 37
	Arlington Austin	Texas Texas	449 30,430	- 1	Oceanport Princeton	New Jersey New Jersey	27 38
	Dallas	Texas	298	1	Albuquerque	New Mexico	38 33
	El Paso	Texas	296 350	l l	Las Cruces	New Mexico	33 84
	Galveston	Texas	512	I	Albany	New York	41
	Richardson	Texas	1,043	1	New York	New York	64
			4,070		White Plains	New York	29

^{- =} Minus Amount (Cancellations Exceed New Awards) S = Small Business

Table 3. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Educational and Nonprofit Institutions: FY 1989

ank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
	BATIELLE MEMORIAL INSTITUTE		178	GEORGIA TECH RESEARCH INST	9,857 *
	Pinehurst N Carolina	47	i i	Atlanta Georgia	9,857
	Research Trian N Carolina	62	1		
	Columbus Ohio	22,699	182	UNIVERSITY OF NEW MEXICO	9,759 *
	Worthington Ohio	63	ĺ	Albuquerque New Mexico	
	Yellow Springs Ohio	50 228		Kirtland AFB New Mexico Las Cruces New Mexico	
	Norman Oklahoma	238 77	1	Richardson Texas	50 50
	Tulsa Oklahoma Eugene Oregon	96	1	VICINITABOLI LEVAR	50
	Bethlehem Penn	46	183	UNIVERSITY OF MARYLAND	9,743 *
	Philadelphia Penn	34	1 103	Washington D.C.	108
	Pittsburgh Penn	30		Adelphi Maryland	774
	Columbia S Carolina	30	1	Baltimore Maryland	1,846
	Nashville Tennessee	55	į.	Cambridge Maryland	72
	Arlington Texas	46		College Park Maryland	6,698
	Austin Texas	55		CHILE	245
	Boerne Texas	27			
	Dallas Texas	113	185	RIVERSIDE RESEARCH INSTITUTE	9,474 *
	El Paso Texas	171	1	Bedford Mass	228
	Houston Texas	49	1	New York New York	9,246
	Alexandria Virginia	89			·
	Fairfax Virginia	40	189	CALIFORNIA INST OF TECHNOLOGY	9,121 *
	Leesburg Virginia	27	- }	Pasadena California	9,121
	Springfield Virginia	142	1		
	Vienna Virginia	279	198	RESEARCH TRIANGLE INSTITUTE	8,768 *
	Woodbridge Virginia	25	ı	Melbourne Florida	175
	Richland Washington	161	J	Raleigh N Carolina	
	Seattle Washington	65		Research Trian N Carolina	8,274
	CANADA	104	1		
445	Introduction of the second		199	SYRACUSE UNIVERSITY	8,746 *
103	UNIVERSITY OF WASHINGTON	22,921 *	1	Auburn Alabama	100
	Seattle Washington	22,921	ł	Boston Mass	30
140	INTURBOTES OF DAMES	00 040 H		Syracuse New York	8,616
110	UNIVERSITY OF DAYTON	20,918 *	1 202	INTUEDATED OF MAGGARIGETICS	0 554 #
	Williams AFB Arizona	1,716	202	UNIVERSITY OF MASSACHUSETTS	8,551 *
	Edwards AFB California	883		Anherst Mass	7,761
	Dayton Ohio	16,894		Vorcester Mass	790
	Montgomery Ohio	134	306	COLUMNIA INTERCENT	0 005 #
	Wright Patters Ohio	1,291	206	COLUMBIA UNIVERSITY New York New York	8,295 * 8,030
123	NEW MEXICO STATE UNIVERSITY	17 911 #	1	New York New York Oyster Bay New York	8,030 214
123	Las Cruces New Mexico	17,811 * 10,889	- 1	Palisades New York	51
	White Sanda Ms New Mexico	6,922		I STIDGAGE NEW TOLK	31
	Autre agin in New Nexton	0,366	207	UNIVERSITY OF MICHIGAN	8,083 *
125	UNIVERSITY OF ILLINOIS	16,958 *	""	Washington D.C.	47
	Caldwells Illinois	28	l l	Ann Arbor Michigan	7,770
	Champaign Illinois	9,341	1	Lansing Michigan	266
	Chicago Illinois	3,371	1	amazing maritali	
	Savoy Illinois	76	217	NATIONAL ACADEMY SCIENCES USA	7,389 *
	Urbana Illinois	4,142	l:	San Diego California	
		· , - · -	- [Washington D.C.	7,289
128	LOGISTICS MOT INSTITUTE	16,321 *	ì		,
	Bethesda Maryland	16,321	221	UNIVERSITY OF ALABAMA	7,184 *
	. •	•		Birmingham Alabama	753
138	SOUTH CAROLINA RES AUTHORITY	14,225 *	- 1	Huntsville Alabama	6, 114
	Charleston S Carolina	14,225	1	Tuscaloosa Alabama	317
			- [
140	WOODS HOLE OCNGRPHIC INSTUTE	14,071 *	223	UNIVERSITY OF CENTRAL FLORIDA	7,043 *
	Woods Hole Mass	14,071	1	Orlando Florida	7,043
			1		
150	CORNELL UNIVERSITY	12,095 *	224	SOUTHWEST RESEARCH INSTITUTE	6,998 *
	Ithaca New York	11,950		San Antonio Texas	6,998
	New York New York	145	1		
			228	UNIVERSITY OF ARIZONA	6,864 *
164	ENVIRONMENTAL RESEARCH	11,045 *	l	Tempe Arizona	129
	Ann Arbor Michigan	11,045	1	Tucson Arizona	6,735
174	CONTRIBUTE DECEMBER 1500 TOURS	40 045 #	1 222	INTUEDCITY OF DESIGNATURALLY	£ 051 #
174	SOUTHERN RESEARCH INSTITUTE	10,015 *	229	UNIVERSITY OF PENNSYLVANIA Philadelphia Penn	6,851 * 6,851
	Birmingham Alabama	10,015	1	Philadelphia Penn	6,851
			1		
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			1		

^{- =} Minus Amount (Cancellations Exceed New Awards) S = Small Business

Table 3. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Educational and Nonprofit Institutions: FY 1989

	Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
240	SALK INST FOR BLGICAL STUDIES	6,221 *	306	UNIVERSITY OF ROCHESTER	4,465 *
	San Diego Californi Swiftwater Penn	163	330	Rochester New York	4,465
	Seliceater remi	6,058	310	OREGON STATE UNIVERSITY	4,323 #
251	MERCER UNIVERSITY	5,825 *	***	Corvallis Oregon	4,323
	Macon Georgia Robins AFB Georgia	5,425	1	TOURS A MAINING THE TIP	
	Robins AFB Georgia	400	314	TEXAS A & M UNIV SYS THE Arlington Texas	4,225 * 550
254	BROWN UNIVERSITY	5,779 *	- 1	College Statio Texas	3,675
	Providence Rhode Isl	5,779			•
257	PURDUE UNIVERSITY	5,743 *	326	YALE UNIVERSITY New Haven Conn	3,800 * 3,800
	Lafayette Indiana	2,721		1100 1101011	3,000
	Purdue Univers Indiana	79	332	COLORADO STATE UNIVERSITY	3,707 *
	West Lafayette Indiana	2,943		Fort Collins Colorado	3,707
262	NORTH CAROLINA STATE UNIV	5,609 *	337	UNIVERSITY OF UTAH	3,658 *
	Raleigh N Carolin		1	Salt Lake City Utah	3,658
265	SOUTHEASIN CTR ELECTR ENG ED	5,548 *	345	UNIVERSITY OF COLORADO	
	Long Beach California		345	Boulder Colorado	3,537 * 2,57 7
	Orlando Florida	1,875	1	Colorado Sprin Colorado	195
	Saint Cloud Florida	2,218		Denver Colorado	765
	Tampa Florida Augusta Kansas	588 48	348	CIEMOON INTUEDOTTO	2 540 #
	Bedford Mass	45 305	346	CLEMSON UNIVERSITY Clemson Univer S Carolina	3,508 * 3,508
	Boston Mass	113]		٥, ٥٠٠
	San Antonio Texas	98	349	UNIVERSITY OF VIRGINIA	3,473 *
	Salt Lake City Utah	176	i	Austin Texas Charlottesvill Virginia	209 3,264
271	DUKE UNIVERSITY	5,413 *	1	CHAILOTTEBALLI VII BIIII	3,204
	Beaufort N Carolina		357	MICHIGAN DEPT PUBLIC HEALTH	3,316 *
	Duke Universit N Carolina Durham N Carolina			Lansing Michigan	3,316
	Deliver in Carollia	4,313	363	NYSERNET INC	3,240 #
276	SOUTHERN METHODIST UNIVERSITY	5,280 *		Syracuse New York	3,240
	Dallas Texas	5,280	368	OHIO STATE UNIVERSITY	2 245 #
281	BOSTON UNIVERSITY	5,127 *	366	Columbus Ohio	3,215 * 3,152
	Boston Mass	1,701		Urbancrest Ohio	63
	Springfield Mass	3,426	370	OVI Allows OFFER INTURNATED	
285	PRINCETON UNIVERSITY	5,019 *	370	OKLAHOMA STATE UNIVERSITY Eglin Air Forc Florida	3,200 * 2,263
	Princeton New Jerse		ł	Stillwater Oklahoma	881
200			ſ	Fairfax Virginia	56
286	STATE UNIVERSITY OF NEW YORK Albany New York	5,019 * 3,675	374	AUBURN UNIVERSITY	2 147 #
	Binghamton New York	3,075	""	Auburn Alabama	3,117 * 3,036
	Buffalo New York	1,099	1	Huntsville Alabama	81
	Stony Brook New York	201	1 202	NET MITTO THOSE OF MITT MORNING	
287	RENSSELAER POLYTECHNIC INST	4,985 *	380	NEW MXICO INST OF MIN TCHNLGY Socorro New Mexico	3,034 * 3,034
	Troy New York	4,985			3,034
205	WINGINIA DISPOSICIO COM OPERA	·	384	NEW YORK UNIVERSITY	2,943 *
295	VIRGINIA PLYTCHNIC INST ST UNI Blackeburg Virginia	4,715 * 4 584	1	New York New York	2,883
	Dahlgren Virginia	4,584 131		North Hempstea New York	60
000			388	UNIVERSITY OF NORTH CAROLINA	2,865 *
298	UNIVERSITY OF FLORIDA Fussels Corner Florida	4,652 * 345		Chapel Hill N Carolina	2,865
	Gainesville Florida	4,307	403	CASE WESTERN RESERVE UNIV	2,625 *
		ŕ	1.7.	Cleveland Ohio	1,990
300	UNIVERSITY OF USCONSIN SYSTEM Kenosha Uisconsin	4,606 *		Wright Patters Ohio	635
	Madison Wisconsin	89 3,761	417	POLYTECHNIC UNIV OF NEW YORK	2,433 *
	Milwaukee Wisconsin	756] "-"	Farmingdale New York	855
303	WADVADD INTURDOTTU	4 500 #	1	New York New York	1,578
303	HARVARD UNIVERSITY Cambridge Mass	4,520 * 4,408	421	AMERICAN SOC FOR ENGRG EDCTON	2,389 *
		112	1 467	Washington D.C.	≥,369 *

⁻ \approx Minus Amount (Cancellations Exceed New Awards) S = Small Business

Table 3. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Educational and Nonprofit Institutions: FY 1989

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
425	NORTHWESTERN UNIVERSITY Evanston Illinois	2,372 * 2,372			· · · · · · · · · · · · · · · · · · ·
426	UNIVERSITY OF PITTSBURGH Pittsburgh Penn	2,367 * 2,367			
432	UNIVERSITY OF RHODE ISLAND Kingston Rhode Isld Narragansett Rhode Isld Saunderstown Rhode Isld	2,341 * 1,941 362 38			
436	NORTHEASTERN UNIVERSITY CORP Bondsville Mass Boston Mass	2,31 4 * 96 2,218			
441	UNIVERSITY OF CONNECTICUT Farmington Conn Storrs Conn	2,226 * 88 2,138			
452	UNIVERSITY OF CINCINNATI Cambridge Mass Cincinnati Ohio	2,030 * 722 1,308			
470	RUTGERS THE STATE UNIVERSITY New Brunswick New Jersey Piscataway New Jersey	1,968 * 871 1,097			
478	WENTWORTH INST OF TECHNOLOGY Boston Mass	1,927 * 1,927			
484	UNIVERSITY OF HAWAII Homolulu Hawaii	1,895 * 1,895			
489	TEXAS TECH UNIVERSITY Lubbock Texas	1,877 * 1,877			
	TOTAL	2,567,336			

^{- =} Minus Amount (Cancellations Exceed New Awards) S = Small Business

Table 4. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to Foreign Contractors: FY 1989

101 ROLI 105 RAM 135 UNII 153 ISRA 160 ROYA 193 CANA	KTRO RADIO KLEIN LS ROYCE INC SYS GMBH TED KINGDOM MINISTI AEL AIRCRAFT INDUST AL NORWEGIAN NAVAL ADIAN COMMERCIAL CO	UNITED KIN TRIES ISRAEL MATERIAL NORWAY	37,280 * 37,280 * 37,280 * 23,161 * 23,161 * 22,510 * 22,510 * 14,848 * 14,848 * 11,851 * 11,851 * 11,371 * 11,371 *			
105 RAM 135 UNIT 153 ISRA 160 ROYA 193 CANA	SYS OMBH TED KINGDOM MINISTE AEL AIRCRAFT INDUST AL NORWEGIAN NAVAL ADIAN COMMERCIAL CO	GERMANY, F RY OF DEF UNITED KIN TRIES ISRAEL MATERIAL NORMAY	23,161 22,510 * 22,510 14,848 * 14,848 11,851 * 11,851 11,371 * 11,371 *			
135 UNIT 153 ISRA 160 ROYA 193 CANA	TED KINGDOM MINISTI AEL AIRCRAFT INDUST AL NORWEGIAN NAVAL ADIAN COMMERCIAL CO	RY OF DEF UNITED KIN TRIES ISRAEL MATERIAL NORMAY	22,510 14,848 * 14,848 11,851 * 11,851 11,371 *			
153 ISRA 160 ROYA 193 CANA	AEL AIRCRAFT INDUST AL NORUEGIAN NAVAL ADIAN COMMERCIAL CO	UNITED KIN TRIES ISRAEL MATERIAL NORWAY DRP	14,848 11,851 * 11,851 11,371 * 11,371			
160 ROYA	AL NORUEGIAN NAVAL	ISRAEL MATERIAL NORWAY DRP	11,851 11,371 * 11,371			
193 CANA	ADIAN COMMERCIAL CO	NORJAY ORP	11,371			
201 MART		CHINESE	9,004 * 9,004			
	TIN BAKER AIRCRAFT	CO LTD UNITED KIN	8,565 * 8,565			
268 TADI	IRAN ELECTRONIC IN	DUSTRIES ISRAEL	5,493 * 5,493			
327 MESS	SERSCHMITT BOELKOU	BLOHM GERMANY, F	3,797 * 3,797			
339 ATM	COMPUTER GMBH	GERMANY, F	3,652 * 3,652			
404 CENT	TRE NATIONAL DETUD	•	2,576 * 2,576	,		
488 CUL	HAM LABORATORY	UNITED KIN	1,880 * 1,880			
493 BUNI	DESAMT FUER WEHRTE		1,836 * 1,836			
		TOTAL	157,824			

^{- =} Minus Amount (Cancellations Exceed New Awards) S = Small Business

Table 5. Net Value of DOD Prime Contract Awards Over \$25,000 for RDT&E to U.S. Government Agencies: FY 1989

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
344	UNITED STATES DEPT OF COMMERCE Boulder Colorado Washington D.C. Gaithersburg Maryland Rockville Maryland National Space Miss Seattle Washington	3,544 * 688 285 2,182 70 70 249			
454	UNITED STATES DEPT ENERGY Berkeley California Oakland California Washington D.C. Argonne Illimois Syracuse New York Oak Ridge Tennessee Richland Washington TOTAL	2,089 * 50 313 400 230 50 238 808			

^{- =} Minus Amount (Cancellations Exceed New Awards) S = Small Business